Volume 169 No. 26

Oil, Paint and Drug Reporter

The Chemical Market Authority Since 1871

June 25 1956

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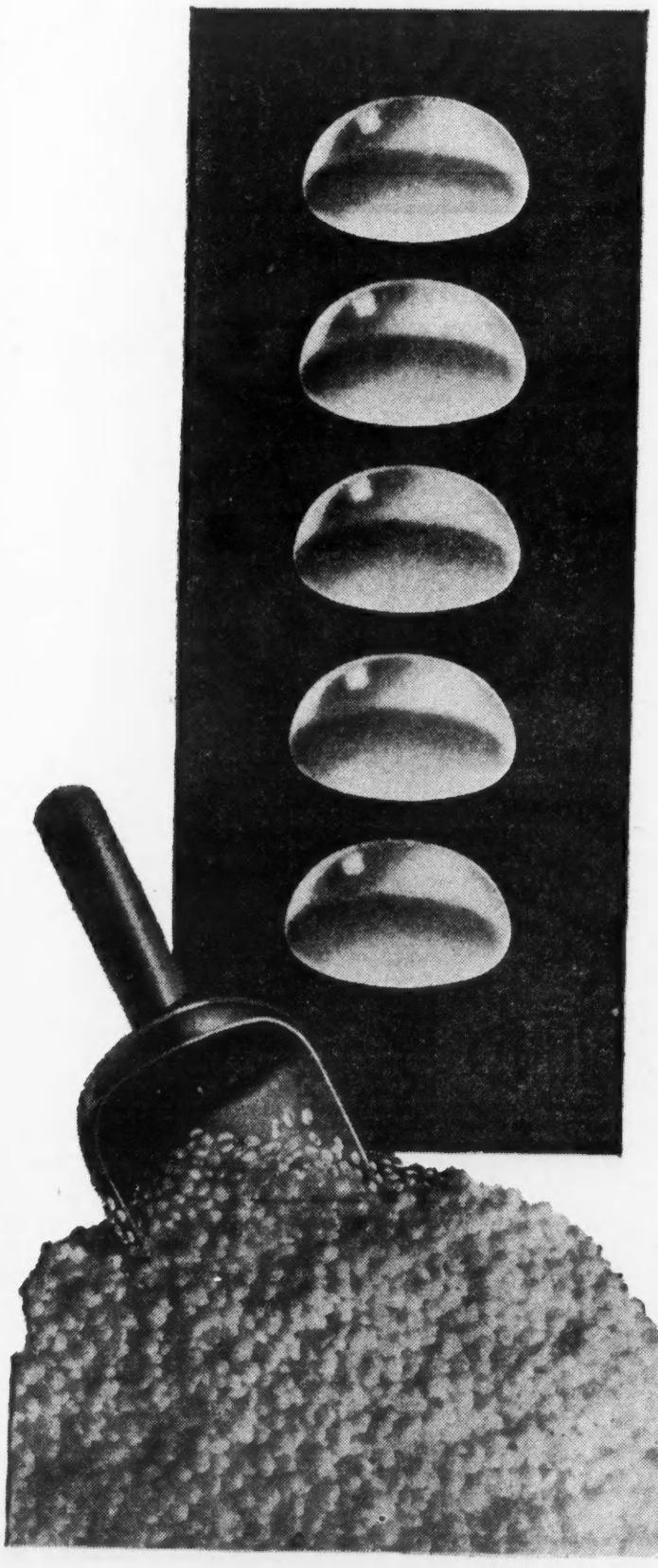

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Vol. 169 No. 26 30 Church St., New York 7, N. Y. June 25, 1956

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Slowing Down Confirmed

The business survey reports of purchasing executives for June confirm the reduced pace of the national economy, indicated last month. Although the 21 percent reporting lower production in June is the same percentage as in May, there are 20 percent who say production is better, compared with 28 percent last month, and 59 percent report no change in this category, whereas 51 percent so reported a month ago.

An improvement in new orders is shown by only 25 percent, compared with 33 percent in May, while 28 percent reported reduced orders in June, against 26 percent a month ago. No change in new orders received is listed by 47 percent, with 41 percent so reporting in May.

Commodity prices continue to ease, and inventories are being worked down gradually. Employment is down again due to layoffs and reduced working time. On production items, there is a shortening of ordering lead time, while MRO and capital goods show little change.

This report was prepared by the business survey committee of the National Association of Purchasing Agents.

The answers to the June special question, on whether the current rising total of expenditures on industrial plant and equipment would continue, or level off, in the second half of 1956, were somewhat inconclusive.

Most of those answering the question expressed some anxiety over the short-term business outlook, but expected improvement prior to and through the fourth quarter of the year. There were 46 percent who reported that their expenditures would continue, and 54 percent reported that they would level off.

A continuation of easing of prices is indicated in the June reports of committee members, with only 33 percent listing higher prices, compared with 61 percent a month ago. In June, 10 percent show lower prices, where 5 percent so reported in May.

There were 57 percent reporting prices the same, whereas 34 percent so reported last month. Adequate coverage of essential requirements, for the present business level, appears to be reducing the buying volume.

The June reports of the committee members reflect a further

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Government Sells Holdings In Rohm & Haas to Syndicate For a Bid of $34.4 Million

The government's stock holdings in Rohm & Haas Company, Philadelphia, representing about 7.8 percent of the outstanding capital stock of the chemical firm, were sold last week by the Office of Alien Property to a syndicate of some seventy-five underwriters headed by Kidder, Peabody & Co. and Drexel & Co., both of New York, for $34,405,649. The syndicate's offer was the highest offer of four bids received in response to a bid invitation issued by OAP last month (OPD, 5/28/56). Of the other three bids, only one was considered of any consequence. This was a bid by A. G. Becker & Co., Chicago, for a group of about 118 underwriters who offered $34,140,865 for the stock.

EXECUTIVE VICE-PRESIDENT: A. Bruce Boehm, elected to the newly-created post of executive vice-president of Enjay Company, New York.

Amount of Stock Offered by Gov't

The government offering consisted of 79,210 shares of Rohm & Haas common and 4,810 shares of the company's preferred stock. The holdings had been seized by the Alien Property Custodian during World War II from its enemy owners.

About 60 percent of the remaining outstanding capital shares in the company is believed to be owned by the Haas family and certain charitable institutions.

The successful bidder's offering price was $428.2512 a share for the common and $100.33 a share for the preferred. The Becker group offered $425.05 for the common and $98 for the preferred. Market price for the Rohm & Haas stock on the date of sale (June 19) was $439 a share for the common and $101 for the preferred.

Sale of Rohm & Haas stock represented the largest transfer of former enemy-owned assets in the history of OAP. Four years ago—in March of 1952—the government sold 440,000 shares of Schering Cor-

—Continued on page 38

Butadiene Plant Sale This Year Is Virtually Abondoned by Congress

Congress last week virtually abandoned plans to rid the government this year of its one remaining unsold synthetic rubber plant—the 60,000 ton alcohol-butadiene facility at Louisville, Ky. After a week of conferences and at least one false start towards changing the law—to permit use of the plant for general chemical manufacturing purposes—the house armed services committee voted Thursday simply to extend the life of the Rubber Producing Facilities Disposal Commission for another ten months and to take up the matter again next year.

This development came two days after the house vetoed the proposed sale of the plant to Union Carbide & Carbon Corporation, New York, for $3,125,000. The plant is presently under lease to Publicker Industries, Inc., Philadelphia, and the agreement has about two more years to run.

When his committee decided against selling the plant to Union Carbide two weeks ago (OPD, 6/18/56), Rep. Carl Vinson of Georgia, chairman, said that he would offer legislation aimed at removing from the plants disposal law some of the curbs on the sale of the Louisville plant.

He followed up the announcement with

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SALES VICE-PRESIDENT: John W. Hall, appointed vice-president in charge of sales and a director by Potash Company of America, Washington, D. C., to succeed the late George E. Petitt.

V-C Calls Meeting To Settle Its Control

A special meeting of stockholders has been called by Virginia-Carolina Chemical Corporation for July 18 to determine the future control of the company, following a recent management-insurgent meeting that produced no agreement on any major point.

The Richmond, Va., fertilizer producer announced that it has called the special meeting to, among other things:—

- Give the stockholders an opportunity to remove from office such director or directors as the stockholders deem appropriate for the welfare of the company.
- Elect a successor or successors to serve for the unexpired portion of the term or terms of any director or directors named.

John S. Battle, Governor of Virginia from 1949 to 1953, and now a Charlottesville, Va., attorney, headed the dissenting

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Customs Bill Hearings Are Due to Start Today

The senate finance committee will hold hearings June 25, 26 and 27 on HR 6040, the so-called customs simplification bill.

Hearings will be limited to testimony on section 2 of the bill which proposes to change existing law to provide that import duties be computed solely on the basis of "export value," except for the so-called American selling price items.

Strong opposition to the valuation change has been registered by industry and the treasury has offered a compromise which would stagger the effectiveness of the duty reductions that would result from changing the basis of computing rates, over a three-year period.

During the hearings the Treasury will explain and defend the compromise and will be followed by testimony of the industry witnesses.

Carbide Picks Puerto Rico For Ethylene Glycol Output

Plans for the construction of an ethylene glycol plant in Puerto Rico, to cost about $28.5 million, were announced last week by Union Carbide & Carbon Corporation, New York. It is contemplated that the new plant will be constructed, owned, and operated by Union Carbide Caribe, Inc., a wholly-owned subsidiary of Union Carbide.

An application for tax exemption under Puerto Rico's industrial incentive act has been filed by Union Carbide Caribe. Completion of the plant is scheduled to be about two years after the grant of the tax exemption.

This new plant will be located near Ponce, on the southern coast of Puerto Rico. Although its exact location has not yet been determined, several sites are being considered in the vicinity of the Commonwealth Oil Refining Company plant near Ponce.

A long-term contract between Union Carbide Caribe and Commonwealth Oil has been signed under which Union Carbide Caribe would purchase by-product refinery gas from Commonwealth Oil, thus assuring the new plant adequate supplies of raw materials on a long-term basis.

Navy Paint Units Closing Order Near

Navy plans for discontinuing its manufacture of paints at its two big plants on the east and west coast are expected to get the green light from congress this week.

The senate is scheduled to pass the Defense department's appropriation bill tomorrow or Wednesday without the controversial provisions that last year gave the house and senate appropriation committess veto powers over the department's programs for terminating its manufacturing activities that compete with private business.

These provisions were contained in section 633 of last year's bill and were proposed to be re-enacted this year in section 638 of the current bill. However, the section was stricken from the measure on the house floor several weeks ago and last week the senate appropriations committee decided not to attempt to restore the section in the senate.

In reporting the bill, the senate committee said that while it took no action

—Continued on page 43

Mines Chief Nominated

Marling J. Ankeny was nominated to be chief of the Bureau of Mines by President Eisenhower last week. Mr. Ankeny is safety director of the Bituminous Coal Operators Association and will succeed John J. Forbes, who has retired. From 1947 to 1952, Mr. Ankeny was chief of the coal mine inspection branch in the mines bureau. Prior to that he was the bureau's senior mining engineer.

Pure Food and Drug Act of 1906: A Short History

The pure food and drug act, called "the strongest national law on its subject in existence," will be fifty years old this week. This is a short history of how that law came into being.

The first general food law in the United States was drafted by Massachusetts in 1784. Louisiana in 1808 and South Carolina nine years later passed laws providing for the examination and licensing of apothecaries. California enacted a pure food and drink law in 1850.

However, 1820 looms as a big date in any history of pure food and drug legislation. For in that year the first edition of the *United States Pharmacopeia* appeared.

The *Pharmacopeia* carried two lists of drugs—one a compilation of "articles of decided reputation or general use" and the other a grouping of products "the claims of which are of a more uncertain kind."

Nothing very substantial was done by the federal government on the subject until 1849 when congress passed a law providing for the stationing of inspectors at ports of entry to see that drug imports met set standards.

However, most historians feel that the real turning point in national drug legislation did not take place until 1883. In that year, Dr. Harvey W. Wiley, a member of the Purdue University faculty, accepted an appointment as chief chemist of the United States Department of Agriculture.

It was, as has been said of other historical figures, a meeting of the right man and the right period of history. It

—Continued on page 37

Customs Ruling Is Issued On Two More Medicinal Items

The United States Court of Customs and Patent Appeals last week ruled on the dutiable rate of two more medicinals—dried *Digitalis Lanata* leaves and homatropine hydrobromide. The court said the first item is dutiable at the rate of 5 percent ad valorem as a drug advanced in value or condition under paragraph 34 of the tariff act of 1930. It added that homatropine hydrobromide is properly dutiable at the rate of 45 percent ad valorem plus 7 cents a pound as a coaltar medicinal.

SALES DEVELOPMENT CHIEF: William M. Gearhart, elevated by Eastman Chemical Products, Inc., Kingsport, Tenn., from chief chemist in charge of its service and development laboratories to manager of its new chemical sales development section.

The decision regarding *Digitalis Lanata* leaves came on an issue raised by the government when the customs court sustained a protest by the importer, Burroughs-Wellcome Company, against classifying the leaves as "digitalis" under paragraph 36 and subject to duty at the rate of 10 cents a pound.

Hinged on 'Digitalis' Meaning

The question hinged on the meaning of "Digitalis" as used in paragraph 36. After citing a number of authorities, including the *United States Pharmacopoeia*, the appeals court concluded that this term applies only to the plant *Digitalis Purpurea*.

In deciding against the government, which had appealed the case, the appeals court said:—

"The merchandise involved herein is similar to the drug 'digitalis' in that it is derived from a plant of the same genus as the drug 'digtalis,' and it is used in obtaining a glucoside which has properties similar to a glucoside obtained from 'digitalis.' But the plain fact of the matter is that it is not 'digitalis'; it is only similar thereto in some respects.

"The error in the position of the government in this case has been in failing to distinguish between the two meanings of the word 'digitalis.' The word has a broad meaning in connection with bontany, but a very specific meaning with reference to a drug; and the imported merchandise does not fit this latter meaning which, as we have shown, was the one intended."

The assessment of the import of homatropine hydrobromide at this rate under paragraph 28(a) of the tariff act of 1930

—*Continued on page 39*

Farm Chemicals On Upswing in 1955

Production and sales of all pesticides and other organic agricultural chemicals moved ahead steadily last year, according to preliminary figures from the Tariff Commission.

Total production amounted to 484 million pounds, an increase of 16 percent over the 419 million pounds reported for 1954. Sales in 1955 were 397 million pounds, valued at $148 million, compared with 336 million pounds, valued at $102 million, in 1954.

Production in 1955 of cyclic pesticides and other cyclic chemicals in this group amounted to 409 million pounds, compared with 358 million pounds in 1954, an increase of 14 percent.

Sales in 1955 were 339 million pounds, valued at $122 million, compared with 279 million pounds, valued at $102 million in 1954.

Production in 1955 of acyclic pesticides and other acyclic organic agricultural chemicals amounted to 75 million pounds, compared with 62 million pounds, reported for 1954; sales in 1955 were 59 million pounds, valued at $26 million, compared with 57 million pounds, valued at $22 million, in 1954.

Metal & Thermit Dedicates Office Building in Rahway

Metal & Thermit Corporation last week dedicated its new general office building at Rahway, N. J. The structure is a part of a combined general office, research and distribution center representing a total value of over $2,500,000.

Pointing out the extensive nature of the development, H. E. Martin, Metal & Thermit president, said it brings together at one central point the company's general offices, a storage and distribution warehouse (nearly completed), sales offices, a central steam plant (already completed) and enlarge research facilities.

Metal & Thermit's existing research laboratory, erected in Rahway in 1942, is being expanded to provide additional facilities, including pilot plants and semi-works for organic and inorganic chemicals.

The Week's Price Changes

Castor Beans, Cottonseed Meal, Carnauba Wax Are Higher. Mercury, Copper Cyanide, Soybean Meal, Greases Lower.

Prices Advanced

Blood, dried, Chicago, 25c. per unit-ton (p. 40)
Castor beans, $15 per ton (p. 61)
Cocoa butter, ½c. per lb. (p. 61)
Cottonseed meal, $2.50 per ton (p. 61)
Egg albumin, tech., 3c. per lb. (p. 41)
Oil, bay, Puerto Rico, 25c. per lb. (p. 54)
Cananga, 30c. per lb. (p. 54)
Menhaden, ½c. per lb. (p. 61)
Mustard, ½c. per lb. (p. 61)
Nutmeg, E.I., 30c. per lb. (p. 54)
W.I., 5c. per lb.
Rapeseed, 1c. per lb. (p. 61)
Soybean, crude, ½c. per lb. (p. 61)
refined, 33c. per lb.
Tung, ½c. per lb. (p. 61)
Wax, Carnauba, yellow, No. 1 Ceara, 8c. per lb. (p. 61)
Parnahyba, 7c. per lb.
Montan, dom., 1c. per lb.

Prices Reduced

Copper cyanide, 3c. per lb. (p. 36)
Copra, $2.50 per ton (p. 61)
Fishmeal, $3 per ton (p. 40)
Fishscrap, $3 per ton (p. 40)
Greases, ¼c. to ⅝c. per lb. (p. 61)
Lard, 0.175c. per lb. (p. 61)
Linalyl acetate, 50c. per lb. (p. 54)
Mercury, $1 per flask (p. 36)
Oil, caraway, 15c. per lb. (p. 54)
Coconut, ⅛c. per lb. (p. 61)
Corn, crude, ½c. per lb.
Cottonseed, ⅜c. per lb.
Eucalyptus, 70-80%, 3c. per lb. (p. 54)
80-90%, 3c. per lb.
Linseed, 0.4c. per lb. (p. 61)
Oiticica, ¼c. per lb. (p. 61)
Peanut, ⅝c. per lb. (p. 61)
Petitgrain, 5c. per lb. (p. 54)
Silver, ½c. per oz. (p. 36)
Soybean meal, $3 per ton (p. 61)

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100=1949 average)

June 22, 1956	June 15, 1956	June 24, 1955
108.05	108.65	106.73

Colgate Joins Rutgers' Team

A division of dental medicine of Colgate-Palmolive Company, in cooperation with Rutgers University was dedicated last week. The ceremonies, held on the grounds of the university, in New Brunswick, N. J., marked the beginning of a unique program in dental research. For the first time, scientists especially trained in this field will staff an industry-supported laboratory exclusively devoted to basic studies in oral health.

William Lee Sims, 2nd, president of Colgate-Palmolive Company, said, "The company thinks it singularly fitting that in this, our 150th anniversary year, a division of dental medicine should be established. It is our hope that from the research to be conducted in these laboratories will come new knowledge that may inspire other scientists to a better understanding of some yet unknown truths and prove of value to other industries, other researchers, and to all those working to benefit civilization throughout the world."

This partnership of Colgate-Palmolive research and the scientific facilities of Rutgers University is dedicated to expanding scientific knowledge of the oral cavity as a joint contribution to the public welfare, it was explained.

Dr. Lewis Webster Jones, president of Rutgers University, in referring to the

—*Continued on page 39*

CERTIFIED COLORS MANAGER: Arthur T. Schramm, appointed manager of certified colors for National Aniline Division, Allied Chemical & Dye Corporation, New York, to succeed Frank W. Green who has retired.

Fluorspar Import Hearings Put Off Until September 15

Public hearings scheduled for June 27 on the petition of the domestic fluorspar industry for relief from imports of fluorspar into the United States were postponed last week until September 13 by the Office of Defense Mobilization.

The hearings were rescheduled at the request of the fluorspar industry, ODM said, because legislation now pending in congress may materially affect the industry's presentations before ODM. In rescheduling the hearing, ODM also extended to September 5 the filing date for requests from parties desiring to be heard.

Wyandotte Cuts Polyol

Wyandotte Chemicals Corporation, Wyandotte, Mich., has lowered prices for tankcar, carload, truckload, mixed car and drum quantities of "Quadrol," the company's new polyol. Reductions range up to 20 percent.

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Ernest Hart

Dr. Carl F. Prutton

FMC Revamps Top Management; Hart Succeeds Davies as President

Food Machinery & Chemical Corporation San Jose, Calif., last week announced a major revamping of its top management. Ernest Hart, former executive vice-president in charge of the FMC chemical divisions, has been elected president of the corporation, succeeding Paul L. Davies, who has become chairman and chief executive officer. Dr. Carl F. Prutton, vice-president and technical director of the chemical divisions, has been named to take over Mr. Hart's former post as executive vice-president in charge of the chemical divisions.

John D. Crummey, chairman of the FMC board of directors since his retirement from active management in 1946, has become honorary chairman of the corporation.

Halt, Fennebresque Executive V.P.'s

James M. Hait and John D. Fennebresque have been elected executive vice-presidents of the corporation. Previously, Mr. Hait was vice-president, director of engineering and manager of the FMC ordnance division. Mr. Fennebresque formerly was vice-president and assistant to the president of the concern.

Jack M. Pope, administrative vice-president, has been elected financial vice-president. Alfred T. Loeffler, staff executive of the chemical divisions, has been elected an FMC vice-president.

Ben C. Carter, executive vice-president in charge of the FMC machinery divisions, was re-elected as were all other corporation officers with the exception of Dr. Max E. Bretschger, who retired on May 1.

MARKETING MANAGER: Donald L. Griswold, assistant sales manager of American Cyanamid Company's dyes department at Bound Brook, N. J., who has been made general manager of the marketing department of Jefferson Chemical Company, Houston, Tex.

Canadian Oil Tells Petrochemical Plans

Canadian Oil Companies, Ltd., plans to expand its petrochemical manufacturing facilities with a $3 million installation at its Sarnia, Ont., refinery. Construction of a UOP platforming unit, which will be integrated with a Udex extraction unit, is to be started this fall. The Udex unit will be the first Canadian plant for extracting chemically pure benzene, toluene and xylene from petroleum.

The platformer, which will have a design capacity of 4,400 B/SD, is the second one at the refinery. It will be operated exclusively to produce charging stock for the Udex unit. The first platformer went on stream in June, 1952—the first one to go into operation in Can-

—Continued on page 37

Catalin, Mexican Firm Sign Data Agreement

A five-year agreement for an exchange of information and "know-how" between Catalin Corporation of America, New York, and Adhesives Resistol, S.A., of Mexico was completed today.

Specifically, Catalin will disclose to Adhesivos its formulas and technical information pertaining to manufacture and equipment in connection with phenolic, cresylic, resorcinol, melamine and urea liquid resins for adhesives, textiles and paper treating purposes.

The agreement signed by Harry Krehbiel and Rodolfo Patron, Catalin and Adhesivos presidents, respectively, is reciprocal, calling for information to be supplied to Catalin on any processes developed by Adhesivos in the areas covered.

Van Ameringen Elects

The election of Chester F. Smith to the board of directors of van Ameringen-Haebler, Inc., has been announced. Mr. Smith was formerly president of Esso Standard Oil Company, and is a director of Standard Oil Company (New Jersey).

Botanicals User Had Better Contract for His Supplies Now, Field Survey by OPD Shows

The manufacturing consumer of botanical drugs had better contract now for his supplies if he wants them on hand when he needs them and at a price that is considered right. That was the principal fact noted by an OPD reporter in a recent survey of the southern botanical belt. Conditions are such that gatherers today consider consumers rather foolish if they do not sign their contracts early. Low prices, it is thought, will prevail only on those drugs that are in spotty demand and those whose use may be discontinued as the season goes on.

The primary market stocks of new crop botanical drugs are not rising, but the prices are.

Weather a Small Factor

The unseasonably cold weather in the southern mountains has had little to do with the lag in collections this year. Spring drugs are there for the gathering. But not so with labor.

The lag in collections is due more to labor's disinterest than to adverse weather conditions. To overcome that, primary market men have advanced their buying prices generously.

The cold weather did have a little to do with the keeping down of collections. The natives of the botanicals belt were held up with their home gardens for a time, but they have since managed to get their plantings in.

Unemployment relief rolls for the indigent and high industrial wages for those who wish to work make drug gathering no longer the attractive field it had been in the past.

This year there was another obstacle to collections—a psychological one. It was the $1 per hour minimum wage law. Actually, the law does not apply to gatherers, for they are persons in business for themselves who are paid by the pound for what they bring in. But when they see laborers making better money they want better money, too.

The primary market prices have risen this spring. Experience has taught the market men that if they want the drugs collected in sufficient quantities they must pay for them.

Warehouse Stocks Relatively Low

Warehouse inventories are relatively low at present, mainly because of the good volume of spring sales. A lot of botanicals have moved to buyers during the last few months and unsold stocks now in warehouses are much smaller than a year ago. Rising sales, shrinking inventories, and the lethargy of labor are all part of this year's picture. They are also good reasons for consumers to make their needs known by booking early contracts with suppliers, OPD determined.

A partial but representative illustration of primary market price advances this

—Continued on page 50

BOARD MEMBER: C. F. Bingham, vice-president of sales for Columbia-Southern Chemical Corporation, Pittsburgh, Pa., who has been elected to the board of directors of this wholly-owned subsidiary of Pittsburgh Plate Glass Company.

Stauffer Adds New Wing To Chauncey Laboratory

Stauffer Chemical Company, New York, has added a new $275,000 wing to its chemical research center at Chauncey, N. Y. The addition more than doubles the floor space at the laboratory.

Research at Chauncey covers the whole range of Stauffer's product line, and includes organic synthesis, inorganic synthesis, formulations, process development and fermentation. Among the new equipment installed at the center is a vapor fractometer.

One of four research laboratories operated by Stauffer, the Chauncey research center played a major role in the development of "Vapam," the company's new soil sterilant and nematode. Stauffer also runs chemical laboratories at Richmond and Torrance, Calif., and a biological research unit at Los Altas, Calif.

Phosphate Land Bill Passed by Senate Unit

Legislation to lift the ceiling on the amount of public phosphate lands which an individual or firm can have under lease in a single state was reported to the senate floor for passage last week by the senate interior and insular affairs committee.

The committee acted on the bill without the benefit of a public hearing and after a brief discussion of its intent and purposes at a closed door meeting.

The bill, S. 3042, is similar to H. R. 8394 on which hearings were held about a month ago by the house interior committee (OPD, 5/28/56). A subcommittee considering that measure has held up further action pending receipt of additional information from the companies that would be affected by the legislation.

Existing law allows an individual or company to hold as much as 10,240 acres of phosphate-bearing public lands under lease, but limits the area that may be held within any one state to 5,120 acres. The senate and house bills repeal the ceiling on the amount that may be held within a single state.

Fulton Bag Changes Control

A group of industrialists has purchased stock control of the eighty-eight year old Fulton Bag & Cotton Mills, one of the nation's largest and oldest manufacturers of textile and multiwall paper bags. The amount involved was approximately $10 million.

Carbon Black Facility Opened in New Mexico

A new carbon black paint with an annual capacity of 25 million pounds has been opened in Eunice, N. M., by Continental Carbon Company, an affiliate of Witco Chemical Company, New York.

Robert I. Wishnick, chairman of the Witco board, said that the furnace-type plant, first of its kind to be built in New Mexico, will produce carbon black through the controlled combustion of natural gas. It will bring Witco's total capacity of all grades of carbon black to approximately 300 million pounds annually.

Dyes Output, Sales All on the Up Side in 1955

Last year was all on the up side for the dye industry—at least as far as output and sales were concerned.

Total output was 167 million pounds, or 17 percent more than the output of the previous year.

Sales came to 155 million pounds, compared to 137 million pounds the year before. They were valued at $181 million, compared with $160 million in 1954. These figures denoted an increase of 13 percent in both quantity and value of sales, said the Tariff Commission, which released them in its preliminary statistics report.

The production of dyes grouped by colour index number was 119 million pounds in 1955, compared with an output of 101 million pounds in 1954, an increase of 18 percent.

Sales of colour index dyes totaled 111 million pounds, valued at $97 million in 1955, compared with 95 million pounds, valued at $84 million, in 1954—an increase of 16.8 percent in quantity and 15.5 percent in value of sales.

Production of prototype dyes in 1955 was 33 million pounds, or 14 percent more than the 29 million pounds produced in 1954. The sales of these dyes in 1955 totaled 31 million pounds, valued at $54 million, compared with 30 million pounds, valued at $50 million, in 1954.

Production of ungrouped dyes in 1955 was 15 million pounds, compared with 13 million pounds in 1954, an increase of 15 percent.

Sales of these dyes in 1955 amounted to 14 million pounds, valued at $30 million, compared with 13 million pounds, valued at $27 million, in 1954—an increase of 8 percent in quantity and 11 percent in the value of sales.

Among the individual dyes for which statistics are given in the report, substan-

—Continued on page 60

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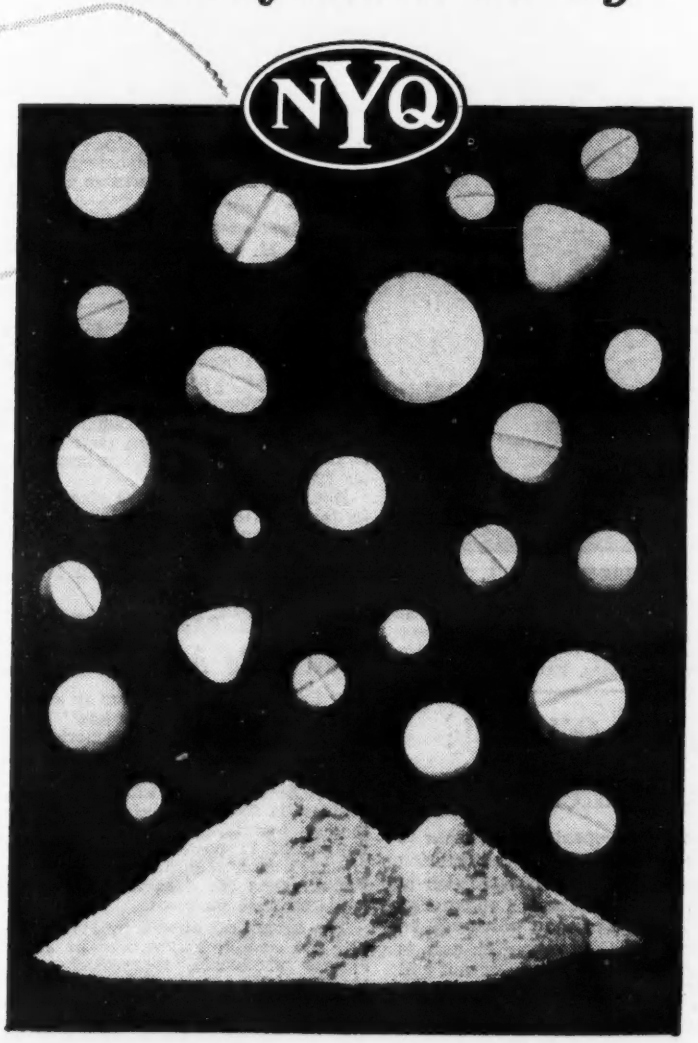

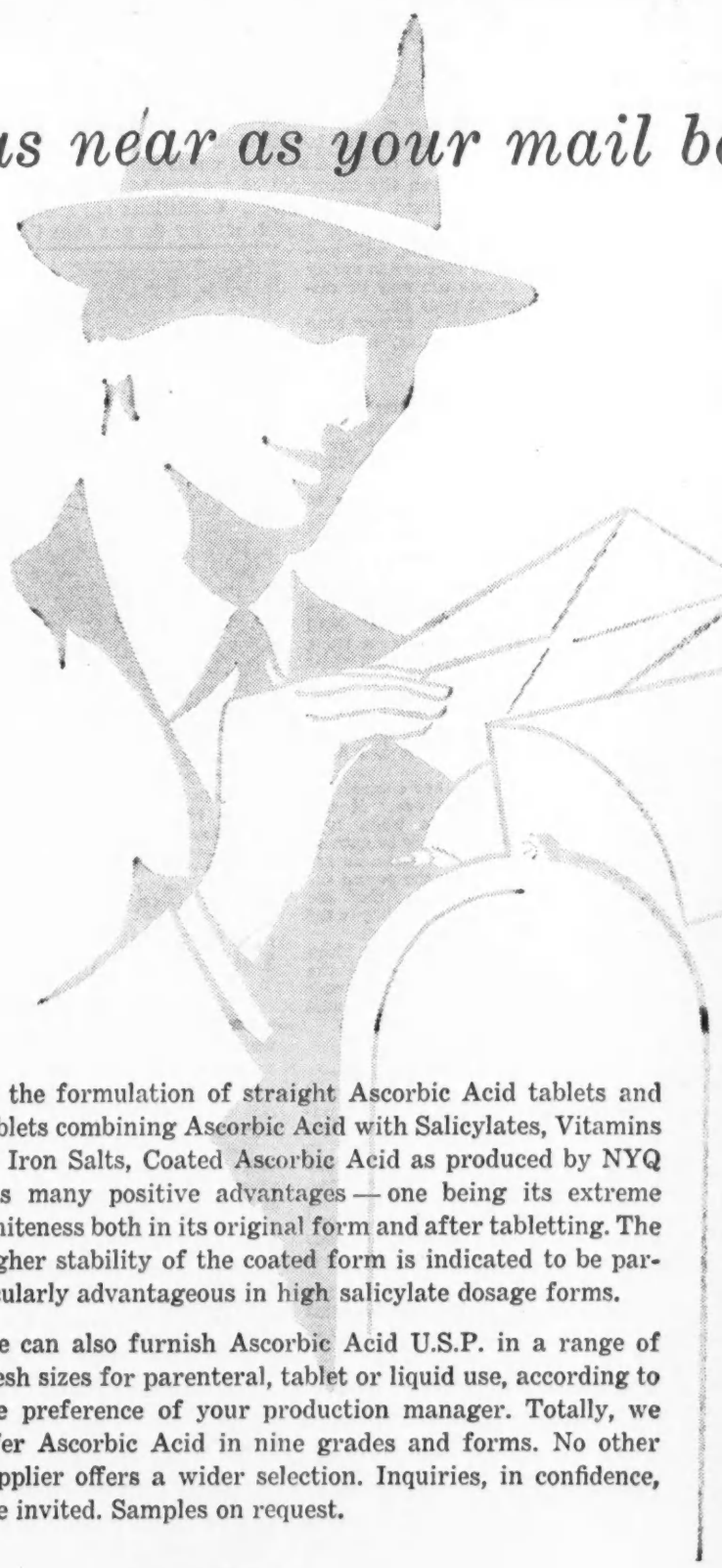

In the formulation of straight Ascorbic Acid tablets and tablets combining Ascorbic Acid with Salicylates, Vitamins or Iron Salts, Coated Ascorbic Acid as produced by NYQ has many positive advantages — one being its extreme whiteness both in its original form and after tabletting. The higher stability of the coated form is indicated to be particularly advantageous in high salicylate dosage forms.

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Association Meetings

Del-Mar-Va Peninsula Fertilizer Association, Annual convention, Ocean City, Md., June 30.

Drug, Chemical and Allied Trades section of the New York Board of Trade, panel discussion and luncheon meeting, Biltmore hotel, New York, June 26.

Food and Drugs Act Fiftieth Anniversary Program, Departmental Auditorium, Willard and Mayflower hotels, Washington, D.C., June 27.

Society of Chemical Industry, American section, luncheon meeting, Biltmore hotel, New York, June 29.

American Chemical Society, national meeting, Atlantic City, N. J., September 16-21.

American Institute of Chemical Engineers, William Penn hotel, Pittsburgh, Pa., September 9-12.

American Society for Testing Materials, Pacific area national meeting and apparatus exhibit, Statler hotel, Los Angeles, September 16-22.

Antibiotics Annual Symposium, Willard hotel, Washington, D. C., October 17-19.

Association of Consulting Chemists and Chemical Engineers, annual meeting and symposium, Belmont Plaza hotel, New York, October 23.

Combined Pharmaceutical Contact Committee of American Drug Manufacturers Association and American Pharmaceutical Manufacturers Association, fall meeting, Washington hotel, Washington, D. C., October 23-24.

Drug, Chemical and Allied Trades Section of the New York Board of Trade, annual outing, Pocono Manor Inn, Pocono Manor, Pa., September 27-29.

Federal Wholesale Druggists Association, annual convention, Greenbrier hotel, White Sulphur Springs, W. Va., September 16-19.

Federation of Paint and Varnish Production Clubs, annual meeting, Cincinnati, Ohio, October 21-24.

Food, Drug and Cosmetic Law Division of American Bar Association, annual meeting, Southern Methodist University's School of Law, Dallas, Tex., August 28.

International Organization for Standardization, council meeting, Geneva, Switzerland, July 16-21.

Kentucky Fertilizer Conference, University of Kentucky, Lexington, Ky., August 1.

National Agricultural Chemicals Association, annual meeting, Essex and Sussex hotel, Spring Lake, N. J., September 5-7.

National Association of Retail Druggists, annual convention, Netherlands Plaza and Sheraton-Gibson hotels, Cincinnati, Ohio, September 17-21.

National Paint, Varnish and Lacquer Association, annual convention, Statler, Ambassador and Biltmore hotels, Los Angeles, November 12-14.

National Pest Control Association, annual convention, Detroit, Mich., Oct. 22-25.

Perkin Centennial, sponsored by American Association of Textile Chemists and Colorists, Waldorf-Astoria hotel, New York, week of September 10.

Pharmaceutical Council of Greater New York, drug cosmetic and sundry show, Statler hotel, New York, September 23-25.

Salesmen's Association of the American Chemical Industry, sales clinic, Commodore hotel, New York, October 15.

Synthetic Organic Chemical Manufacturers Association, monthly luncheon, Roosevelt hotel, New York, September 11; annual meeting and dinner, Biltmore hotel, New York, December 3.

Technical Association of the Pulp and Paper Industry, national plastics-paper conference, Institute of Paper Chemistry, Appleton, Wis., October 3-4.

Trade Fair of the Atomic Industry, Navy Pier, Chicago, September 24-28.

Rauwolfia's Tranquilizing Action Explained by Biochemist From Ciba

A scientific explanation of how some of the new tranquilizing drugs work was offered at the American Chemical Society's fifth National Medicinal Chemistry Symposium in East Lansing, Mich., last week. The nerve-soothing action of the old East Indian snakeroot remedy was compared with cocktails and barbiturate drugs by Dr. Albert J. Plummer of Ciba Pharmaceutical Products, Inc., Summit, N. J., who described the properties of rauwolfia alkaloids. Although there is a similarity in effects achieved, the mode of action of each in the body is quite different, it was indicated.

INDUSTRIAL SALES MANAGER: Kenneth A. Proctor, named industrial sales manager of Better Finishes & Coatings, Inc., Newark, N. J.

The effects of drugs such as reserpine are known to differ fundamentally from those of barbiturates, Dr. Plummer explained, "because the electro-encephalogram, or brain wave recording, following a dose of reserpine resembles the normal control pattern, which contrasts markedly with the typical 'sleep' pattern following pentobarbital administration.

"The quiescence produced by reser-

—Continued on page 60

Pennsylvania Color Okays Plans for Enlarging Plant

Final approval has been given by Pennsylvania Color & Chemical Company to plans for enlarging its plant at Doylestown, Pa. Following the grading work on the site, new construction will get under way at once.

New facilities will make possible an increase of about 20 percent in output. Some of this, according to V. C. Bidlack, president, will be in the form of increased manufacturing capacity for pigment dispersions in vinyl resins and also for a broad line of transparents for foil and metal coatings. The new unit is planned to come on stream during first quarter of 1957.

Minerals Buying Bill Wins Senate Passage

The senate passed legislation last week to continue the purchasing of domestic supplies of tungsten, fluorspar and columbium-tantalum by the General Services Administration for the national stockpile.

The bill (S. 3982), which now goes to the house for action, calls for the purchase of specific amounts of the minerals by December 31, 1958, as follows:—

Tungsten—Not less than 1.25 million short ton units of tungsten trioxide at a price not less than $55 per short ton unit. In the case of production for mines with an annual production capacity of not more

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Surface-Active Agents Show 12 Percent Gain in Production; Plasticizers Up 31.6 Percent

US production of all surface-active agents went up 12 percent last year, while plasticizers output in 1955 showed a 31.6 percent gain over 1954, according to the Tariff Commission. Production of surfactants in 1955 totaled 1,153 million pounds, as compared with 1,026 million pounds in 1954. Production of all plasticizers in the United States last year amounted to 396 million pounds, against 301 million pounds produced in 1954. Surfactant sales in 1955 totaled 1,066 million pounds, valued at $241 million, compared with 913 million pounds, valued at $196 million, in 1954. Plasticizer sales in 1955 were 337 million pounds, valued at $103 million, compared with 247 million pounds, valued at $82 million, in the previous year.

Production of Cyclic Surfactants

Production of cyclic surface-active agents in 1955 amounted to 764 million pound, an increase of 124 million pounds over the output of 640 million pounds reported for 1954. Sales of cyclic surface-active agents in 1955 totaled 705 million pounds, valued at $148 million, compared with sales of 577 million pounds, valued at $120 million, in 1954.

Production of acyclic surface-active agents in 1955 amounted to 389 million pounds, only slightly more than the 386 million pounds in 1954. Sales of acyclic

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HEADS NEW YORK P.A.'S: William F. Rae, jr., purchasing agent of the Mennen Company, Morristown, N. J., who has been elected president of the Purchasing Agents Association of New York.

ASTM Chooses Schatzel As Its 1956-57 President

American Society for Testing Materials at its fifty-ninth annual meeting in Atlantic City, N. J., last week elected Rudolf A. Schatzel president for 1956-57. Mr. Schatzel is vice-president and director of engineering of Rome Cable Corporation, Rome, N. Y.

Kenneth B. Woods, head of Purdue University's School of Engineering at Lafayette, Ind., was elected to a two-year term as vice-president of ASTM. Chosen for three-year terms as directors of the society were the following:—

Miles N. Clair, president of Thompson & Lichtner Company, Brookline, Mass.; Howard C. Gross of Battelle Memorial Institute, Columbus, Ohio; George H. Harnden of General Electric Company, Schenectady, N. Y.; R. R. Litehiser of the Ohio State Highway Testing Laboratory at Columbus, Ohio, and Charles R. Stock of American Cyanamid Company, Stamford, Conn.

MGK's New Repellent Approved by FDA, USDA

Announcement has been made by McLaughlin Gormley King Company, Minneapolis, Minn., that its new "MGK Repellent 11" has been accepted and registered by the Food and Drug Administration and the Department of Agriculture, respectively, for pesticide use on dairy cattle and in dairy barns.

This new repellent, a butadiene derivative, is the first and only pesticide registered for such use since the passage of the pesticide residue amendment (frequently called the Miller bill), the company declared. The new chemical was developed by Phillips Petroleum Company, and McLaughlin Gormley King is operating under a license in the marketing of this new repellent.

SOCMA Meets Alone in '57

Synthetic Organic Chemical Manufacturers Association will go it alone again in 1957. SOCMA's board has decided not to undertake a joint meeting with the Manufacturing Chemists' Association, but, instead, to follow the 1956 pattern and meet as an individual association. SOCMA has still to fix an appropriate time and place for its 1957 outing.

Drug 'Underground' Seen in Pending Bill

Legislation pending before congress to control barbiturates and amphetamines will create an "underground" of illegal distributors, according to a major drug and chemical industry group.

In a communication to Congressman Hale Boggs, who proposed H.R. 11108, the Drug, Chemical and Allied Trades section of the New York Board of Trade stated that the bill is unnecessarily far reaching and drastic in order to effect desirable control of the illegal distribution of these products.

Sydney N. Stokes, chairman of the group, stated "The illegal possession provisions of the proposed legislation set a very dangerous precedent for the federal regulation of drugs of this nature, by placing the burden of proving legal possession with the possessor.

"Any illegal possession provision in a

—Continued on page 58

Koppers Awarded Contract For French Plastics Plant

Contracts for the engineering design and operating "know-how" of a polystyrene plant have been awarded Koppers International, C. A. by Houilleres du Bassin de Lorraine of Merlebach (Moselle), France, according to George W. Naylor, vice-president and general manager of the new international unit of Koppers Company, Pittsburgh, Pa.

Under the contract, Koppers will provide all the engineering plans for the plant including specifications, detailed flow sheets of the operating process and general plant layout. It is planned to locate the plant in the Department of Moselle not far from the styrene monomer plant which Houilleres du Bassin de Lorraine is constructing in Carling under license from Koppers.

Liabilities to Assets—the Search in Fish Oils

Those properties of fish oils which chemists call "unsaturated long-carbon-chain fatty acids" and which are partially responsible for the low price which fish oil sometimes brings on the market, may be transformed from liabilities to assets, Fish and Wildlife Service research indicates.

Involved is recent work by the service chemists in the Fishery Technological Laboratory in Seattle, Wash., to develop new chemical products from fish oil. It well may have opened the door to the utilization of fish oil in the manufacture of many products just as other efforts by chemists paved the way for the manufacture of hundreds of new products from coal, government men believe.

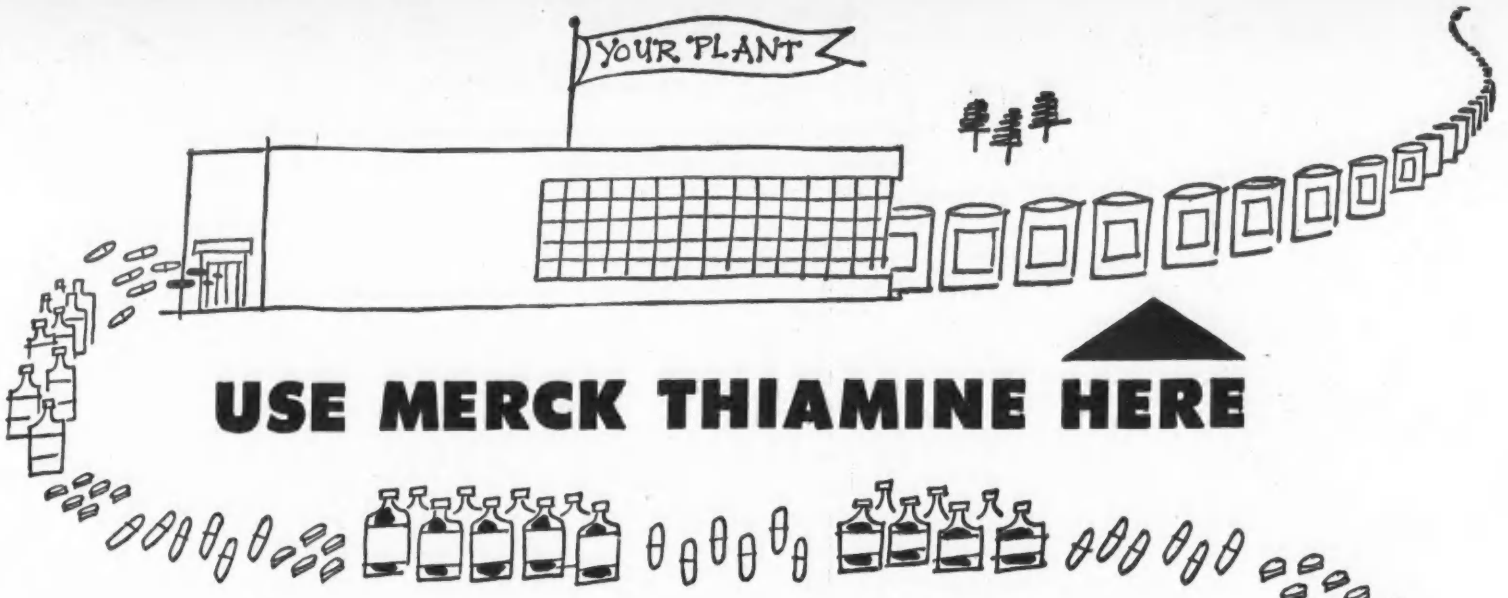
This experimental program is being conducted in service laboratories and in several universities under contract with the Fish and Wildlife Service. It is part of the Saltonstall-Kennedy program for increasing the production and enlarging the market for domestic fishery products.

Another experimental program endeavoring to find new uses or better utilization of fish oil in its natural state, is being carried on at the service's Fishery Technological Laboratory at College Park, Md., with several colleges cooperating.

A goal in the first program was achieved recently when some of the "unsaturated long-carbon-chain fatty acids" were isolated on a laboratory basis by some of the service chemists in Seattle. Yet to be solved is the problem of isolating these unsaturated fatty acids commercially.

Fish and Wildlife Service chemists cannot say just what products will result from their work but they feel that once these

—Continued on page 59



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Current MARKET Quotations

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, June 22 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views. An index to the weekly market reports is to be found on page 4.

A

Acacia (see Gum arabic).
Acenaphthene, below 92.5 C., m.p., dms., works lb. .40 - —
above 92.5 C., m.p., bbls., dms., lb. .41 - .50
Acetaldehyde, 99%, dms., c.l., dlvd. lb. .12 - —
l.c.l., dlvd. lb. .13½-
tanks, dlvd lb. .10 - —
Acetaldol (see Aldol).
Acetanilide, tech., flaked, bbls., bgs., c.l., frt. alld. lb. .29 - —
ton lots lb. .30 - —
smaller lots lb. .33 - —
USP, bbls., 2,000-lb. lots lb. .80 - —
smaller lots lb. .81 - .86
Acetic anhydride, dms., c.l., dlvd. E. lb. .15½- —
l.c.l., dlvd. E lb. .17 - —
tanks, dlvd. E lb. .14 - —
Acetoacetanilide, fib. dms., c.l., dlvd lb. .80 - —
l.c.l., dlvd lb. .81 - —
Acetoacet-o-chloroanilide, fib. dms., c.l., dlvd lb. 1.35 - —
l.c.l., dlvd lb. 1.36 - —
Acetoacet-o-toluidide, fib. dms., c.l., dlvd. lb. .82 - —
l.c.l., dlvd lb. .83 - —
Acetone, CP, dms., c.l., dlvd lb. .10½-
l.c.l., dlvd lb. .11½- —
tanks, dlvd lb. .08 - —
Methyl (see M).
Acetonitrile, dms., c.l., works lb. .45 - —
l.c.l., works lb. .47 - —
Acetophenetidin, USP, bbls., works, frt. equald lb. 1.17 - 1.19
Acetophenone, cns., dms lb. 1.21 - 1.85
tech., dms., l.c.l., works lb. .75 - —
N-Acetyl-p-aminophenol, dms., frt. adjusted lb. 1.75 - 1.85
Acetyltributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .36 - —
l.c.l., frt. alld. E. of Denver lb. .35 - —
tanks, frt. alld. E. of Denver, lb. .33 - —
Acetyltriethyl citrate, tech., non-ret. dms., c.l., frt. alld, E. of Denver lb. .39 - —
l.c.l., frt. alld E. of Denver, lb. .40 - —
tanks, frt. alld. E. of Denver, lb. .37 - —
Acetyltri-2-ethylhexyl citrate, non-ret. dms., frt. alld lb. .60 - —
Acid, abietic, coml., dms., c.l., works lb. .12 - —
l.c.l., ex whse lb. .1490-
cryst., dms., c.l. works lb. .06½- —
l.c.l., works lb. .07 - .07½
Acetic, coml., or redist., 28%, bbls. 100 lbs. 4.80 - —
56%, bbls 100 lbs 8.25 - —
70%, bbls 100 lbs. 9.95 - —
80%, bbls 100 lbs.10.45 - —
glacial, syn., CP, dms., dlvd. 100 lbs.15.00 -16.00
tech., dms., c.l., dlvd 100 lbs.13.75 - —
l.c.l., dlvd. 100 lbs.14.25 - —
tanks, dlvd 100 lbs.10.00 - —
USP chys., inclusive, dlvd., 100 lbs.24.00 -25.00
Acetic anhydride (see Acetic anhydride above).
Acetylsalicylic, USP, special, makers, primary distrib., bbls., 1,000-lb. lots, point of shipt lb. .61 - —
standard, fine, cryst., gran., (30-40 mesh) powd., (60 mesh), bbls., 1,000-lb. lots, lb. .56 - .58
Freight equald, shipt. identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.
Adipic, bgs., c.l., dlvd lb. .32 - —
l.c.l., dlvd lb. .34¾-
Aminoacetic, NF, bbls., frt. adjusted lb. 1.50 - 1.75
p-Aminobenzoic, tech., dry, dms., works lb. 1.74 - 1.77
USP, dms., 1,000-lb. lots or more, works lb. 2.50 - —
smaller lots, works lb. 2.55 - 2.60
p-Aminosalicylic, dms., 100 lbs or more, frt. adjusted lb. 3.70 - —
Anthranilic, 99%, 150-lb. dms., dlvd. lb. 1.10 - —
Arsenous, tech. (see Arsenic, white).
USP (see Arsenic trioxide).
Ascorbic USP, dms., 25-100 kilo lots kilo.12.00 - —
10-kilo lots kilo.12.35 - —
5-kilo lots kilo.12.75 - —
bots, 1-kilo lots kilo.13.00 - —
500-gram lots kilo.13.50 - —
Battery, chys., c.l., works, E. 100 lbs. 2.35 - —
l.c.l., works, E 100 lbs. 2.65 - 3.45

Acid, benzoic, tech., bbls., dms., 100-lb. lots or more lb. .44 - —
USP, bbls., dms., 100-lb. lots or more lb. .54 - —
Betahydroxynaphthoic (see Acid, b-Oxynaphthoic).
Betaoxynaphthoic (see Acid b-Oxynaphthoic).
Boric, tech., 99.9%, cryst., bgs., c.l., works ton.126.75 - —
ton lots, ex whse, N. Y. or Chi ton.116.50 - —
smaller lots, same basis. ton.131.50 - —
dms., c.l., works ton.151.25 -172.25
ton lots, ex whse, N. Y. or Chi ton.201.00 -222.00
smaller lots, same basis. ton.206.00 -227.00
gran., bgs., c.l., works ton.101.75 - —
ton lots, ex whse, N. Y. or Chi ton.151.50 - —
smaller lots, same basis. ton.156.50 - —
dms., c.l., works ton.126.25 -147.25
ton lots, ex whse, N. Y. or Chi ton.176.00 -197.00
smaller lots, same basis. ton.181.00 -202.00
bulk, c.l., works ton.95.75 - —
Acid, boric, tech., 99.9%, powd., bgs., c.l., works ton.106.75 - —
ton lots, ex whse, N. Y. or Chi ton.156.50 - —
smaller lots, same basis. ton..161.50 - —
dms., c.l., works ton.131.25 -152.25
ton lots, ex whse., N. Y. or Chi ton.181.00 -202.00
smaller lots, same basis. ton.186.00 -207.00
Boric acid in kegs $45.50 per ton higher than in paper bgs. USP boric Acid $25 per ton higher.
Broenners, bbls lb. 1.76 - —
Butyric, 99%, dms., c.l., works lb. .34 - —
l.c.l., works lb. .34½- —
tanks, works lb. .32½- —
Capric, dms lb. .25 - .27
Caprylic, dms lb. .25 - .27
Cassella, dms., frt. alld., 100% basis lo. 1.44 1.75
Castor oil, split dms lb 35½- .36
Chicago, paste, bbls., frt. alld lb. 3.21 - —
Chloroacetic, mono purif., flake, 99% dms lb. .23½- .25½
tech., flake, 96-97%, dms., frt. equald lb. .20 - .21
o-Chlorobenzoic, fib. dms., t.l., works lb. 1.10 - —
smaller lots, works lb. 1.25 - —
Acid, p-chlorobenzoic, fib. dms., 2,000 lbs. or more, works lb. 2.25 - —
less than 2,000 lbs., same basis. lb. 2.30 - —
Chlorosulfonic, dms., c.l., frt. equald lb. .0465- —
l.c.l., frt. equald lb. .0515- —
tanks, frt. equald lb. .0415- —
Acid, chlorosulfonic, in stainless steel dms. ½c. per lb. higher.
Chromic, 99¾%, dms., c.l., works, fr., equald lb. .28½- —
l.c.l., dlvd., N. Y. metropolitan area lb. .29 - .30
NF (see Chromium trioxide).
Cinnamic, refd., bots lb. 2.50 - 3.50
Citric, USP, anhyd., gran., fine gran., bgs., dms., c.l. lb. .29½- .30
10,000-lb. lots, 1 shipt. lb. .30 - .30¼
smaller lots lb. .30½- .31
hydrous, gran., fine gran., bgs., dms., c.l lb. .27½- .28
10,000-lb. lots, 1 shipt. lb. .28 - .28¼
smaller lots lb. .29 - .29¼
Powdered citric acid ½c. higher.
Cleve's, mixed, bbls lb. 79 - —
Coconut oil, dist., dms lb. .25 - .27
tanks lb. .23 - —
dbl. dist., dms lb. .25 - .27
tanks lb. .23 - .24
Corn oil, dist., dms lb. .16¾- .18¾
tanks lb. .14¾- —
Cottonseed oil, dist., dms lb. .15¾- .17¾
tanks lb. .13¾- —
2,3-Cresotic, dms., ton lots, works. lb. .70 - —
less than ton lots, works lb. .72 - —
Cresylic, coaltar, dom., resin and tricresyl phosphate grade, 50%, 207° or above, tanks, frt. equald. gal. 1.10 - —
204° to 207° C., tanks, frt. equald. gal. 1.20 - —
non-resin grade, 50%, 210° or above, total range over 9° C., dms., c.l., frt. equald. gal. 1.15 - —
l.c.l., frt. equald. gal. 1.19 - —
tanks, frt. equald. gal. 1.00 - —
Imp., 75% at 215° C. or over, dms., ex whse gal. .95 - —
petroleum, dom., 195° to 214°C., non-ret. dms., 65 to c.l., works, San Francisco and Los Angeles gal. .80 - —
l.c.l., same basis gal. .82 - .84
tanks, same basis gal. .65 - —
200° C. to 222° C., tanks, Wilmington, Cal lb. .65 - .72
211° C. to 237° C., non-ret. dms., c.l., San Francisco and Los Angeles gal. .76 - —
l.c.l., same basis gal. .78 - .80
tanks, same basis gal. .61 - —
220° C. to 242° C., tanks, Wilmington, Cal lb. .62 - .67
245° C. to 295° C., tanks, Wilmington, Cal gal. .50 - —
Crotonic, fib. dms., 200 lbs. or more, contained, works lb. .50 - —
Cyanoacetic, tech., bbls. lb. .90 - 1.25
Dichlorophenoxyacetic (see 2,4-D).
Diethylbarbituric (see Barbital).
Diglycolic, bgs., works lb. .14 - —
Dithiodibenzoic, dms., 1,000-lb. lots, works lb. 1.45 - —
2-Ethyl hexoic, dms., c.l., dlvd. lb. .36½- —
l.c.l., dlvd. lb. .37½- —
tanks, dlvd lb. .34½- —
F, crude, paste, bbls., works lb. 2.10 - —
Folic, bots, fib. cns kilo-lots or more gram. 1.40 - —
Formic, 85%, chys., c.l., works lb. .1570- —
l.c.l., works lb. .1620- .1720
90%, chys., c.l., works lb. .1625- —
l.c.l., works lb. .1675- .1775
Fumaric, tech., bgs., dms., c.l., frt. alld. E lb. .25½- —
l.c.l., same basis lb. .26½- —
Gallic, NF VII, bbls., 1,000 lb. lots lb. 1.80 - —
smaller lots lb. 1.82 - 2.00
tech., bbls., 1,000-lb. lots lb. 1.58 - —
smaller lots lb. 1.82 - 2.00
Gamma, dry, grd. bbls., frt. alld. lb. 1.50 - —
paste, bbls frt alld lb 1.45 - —
Gentisic, 100-lb fib dms lb 6.50 - —
Gluconic, tech., 50% bots lb .25 - .35
chys. lb. .19 - —
dms. lb. .15½- —
l-Glutamic, 99½% fib dms., 100-lb. lots, works lb. 2.00 - —
25-lb. lots, works lb. 2.05 - —
Glycolic (see Acid hydroxyacetic).
H, dry, bbls., c.l., works, 100% basis lb. 1.00 - —
l.c.l., same basis lb. 1.02 - —
Hydriodic, 1.50 s.g., chys lb. 2.94 - —
1.70 s.g., chys lb. 3.23 - —
Hydrobromic, medicinal, 48%, chys., dlvd. E lb. .37 - .43
Hydrochloric, anhyd. (see Hydrogen chloride).
18° chys., c.l., works 100 lbs. 2.50 - —
l.c.l., dlvd., Metropolitan area 100 lbs. 2.90 - 3.05
tanks, works, frt. equald ton.28.00 - —
20° chys., c.l., works 100 lbs. 2.75 - —
l.c.l., dlvd., Metropolitan area 100 lbs. 3.15 - —
tanks, works, frt. equald ton.30.00 - —
22°, chys., c.l., works 100 lbs. 3.25 - —
l.c.l., dlvd., Metropolitan area 100 lbs. 3.63 - —
tanks, works, frt. equald ton.35.00 - —
CP, USP, consumers, chys., extra, c.l., works lb. .11¾- —
l.c.l., same basis lb. .13¼- .13¾
5-pint bots., extra, cs., c.l., same basis lb. .16¾- —
l.c.l., same basis lb. .18¼- .19¼
Acid, hyrdochloric, CP, USP, prices to dealers 1½c. per lb. less.
Hydrocyanic, cyls., frt. alld lb. .75 - .95
dilute, NF, 2%, 5-lb. bots lb. .40 - —
Hydrofluoric, anhyd. (see Hydrogen fluoride).
aqueous, tanks, works lb. .21 - —
70%, steel, dms., works lb. .18½- .22½
Hydrofluosilicic, dms., works, 30% basis lb. .06 - —
Hydroxyacetic, tech., 70%, non-ret. bbls., Phila., 100% basis lb. .136 - —
tanks, Belle, W. Va., 100% basis lb. .095 - —
Hypophosphorus, purif., 50%, chys lb. 1.30 - 1.32
USP, chys. lb. .88 - —
Isonicotinic, 100-lb. fib. dms., works lb. 4.25 - —
Hydrazide (see Isoniazid).
Itaconic, tech., fib. dms., c.l., works lb. .43 - —
l.c.l., works lb. .44 - —
purif., fib. dms., c.l., works lb. .53 - —
l.c.l., works lb. .54 - —
J, paste, bbls., works, 100% basis. lb. 2.43 - —
powd., bbls., same basis lb. 2.50 - 2.65
Koch, bbls., frt. alld., 100% basis. lb. 1.00 - —
L, bbls., works lb. 1.25 - —

Abbreviations

Used in OPD Market Quotations

alld.	allowed	distr.	distributor	NNR	New and Nonofficial Remedies
amorph.	amorphous	djns.	demijohns	No.	number
AMP	American melting point	dlvd.	delivered	nom.	nominal
anhyd.	anhydrous	dms.	drums	o-	ortho
a.p.a.	available phosphoric acid	dom.	domestic	ord.	ordinary
approx.	approximately	E.	east	oz.	ounce
artif.	artificial	e.p.	end point	p-	para
ASTM	American Society for Testing Materials	equald.	equalized	Pac.	Pacific
Atl.	Atlantic	exp.	expressed	pf.	proof
Be.	Baume	F.	fahrenheit	phos.	phosphate
bbls.	barrels	ferment.	fermentation	photo.	photographic
bgs.	bags	f.f.a.	free fatty acid	pkgs.	packages
bls.	bales	f.f.c.	free from chlorine	powd.	powdered
bots.	bottles	fib.	fiber	precip.	precipitated
b.p.	boiling point	f.o.b.	free on board	prod.	producer
b.p.l.	bone phosphate of lime	f.p.a.	free of prussic acid	pt.	point
b.r.	boiling range	frt.	freight	pulv.	pulverized
bxs.	boxes	gal.	gallon	purif.	purified
C.	centigrade	gran.	granular	redist.	redistilled
chys.	carboys	grd.	ground	refd.	refined
CD	completely denatured	I.&a.	iron and aluminum	refy.	refinery
c.i.f.	cost, insurance, freight	i.b.p.	initial boiling point	reg.	regular
cks.	casks	imp.	imported	resub.	resublimed
c.l.	carlots	incl.	included	ret.	returnable
cns.	cans	indust.	industrial	SD	specially denatured
coml.	commercial	kgs.	kegs	s.d.	single distilled
conc.	concentrated	l-	laevo	S. E.	southeast
CP	chemically pure	lacq.	lacquer	sec.	secondary
cps.	centipoises	lb.	pound	secs.	seconds
cryst.	crystal	l.c.l.	less than carlots	s.g.	specific gravity
cs.	cases	l.t.l.	less truckload	ship't	shipment
ctns.	cartons	liq.	liquid	soln.	solution
cyls.	cylinders	mfrs.	manufacturers	s.u.	standard unit
d-	dextro	m-	meta	syn.	synthetic
dbl.	double	m.a.p.	mixed aniline point	tanks.	railroad tankcars
denat.	denatured	min.	minimum	tech.	technical
dest-dist.	destructive-distilled	m.p.	melting point	tert-	tertiary
dl-	dextro-laevo	N-	nitrogen	t.l.	truck loads
dist.	distilled	n-	normal	t.w.	tank wagons
		nat.	natural	USP	U. S. Pharmacopoeia
		neut.	neutral	vis.	viscosity
		NF	National Formulary	VM&P	varnish makers & painters
				W.	west
				whse.	warehouse
				w. w.	water-white

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Acid, lactic, edible, 50%, bbls., 20 or more lb. .1754- .215
smaller lots lb. .1854- .225
80%, bbls., 5 or more lb. .3054- .37
smaller lots lb. .3104- .375
plastic grade, 50%, bbls., 20 or more, works lb. .23 - —
1 to 19 lb. .235 - —
80%, bbls., 5 or more lb. .385 - —
tech., 22%, bbls., c.l., works 100 lbs. 6.30 - —
l.c.l., works 100 lbs. 6.70 - —
cbys., l.c.l., works 100 lbs. 12.20 - —
44%, bbls., c.l., works 100 lbs. 11.45 -11.95
l.c.l., works 100 lbs. 11.85 -12.35
USP, 85%, cbys. lb. .85 - .88
Laurent's, bbls lb. .60 - —
Lauric, 90%, dms lb. .36½- .38½
Linseed oil, dist., dms lb. .1890- —
w.w., dms. lb. .2190- —
Mandelic, NF, dms., 1,000-lb. lots. lb. 2.35 - —
smaller lots lb. 2.40 - 2.50
Metanilic, dms., works lb. .57 - .75
Methacrylic, glacial, 98%, dms., truckloads, works lb. .54½- —
smaller lots, works lb. .55 - —
Molybdic, 85%, dms., works lb. 1.26 - —
Monochloroacetic, purif. (see Acid, Chloroacetic mono-).
Muriatic (see Acid, hydrochloric).
Myristic, dms lb. .26 - .28
1-N 1-Naphthol-4-sulfonic (see Acid, Nevile and Winthers).
1-Naphthol-5-sulfonic (see Acid, L).
Maleic, cryst., powd., dms lb. .37 - .38

Acid, malic, tech., dms lb. .50 - —
1-Naphthol-5-sulfonic, 8-amino (see Acid, S).
1-Naphthol-3,6-disulfonic, 8-amino (see Acid, H).
2-Naphthol-6,8-disulfonic (see Acid, Gamma).
5-Naphthol-7-sulfonic, 2-amino (see Acid, J).
Naphtholsulfonic, mixed (see Acid, Cleve's).
1-Naphthylamine-5-sulfonic (see Acid, Laurent's).
2-Naphthylamine-4,8-disulfonic (see Acid, Casella).
2-Naphthylamine-6-sulfonic (see Acid, Broener's).
2-Naphthylamine-7-sulfonic (see Acid, F).
2-Naphthylamine-1-sulfonic (see Acid, Tobias).
Nevile and Winther's, dms., frt. alld lb. 1.20 - —
Nicotinic, USP, dms., dlvd kilo. 8.00 - 8.30
Amide, USP (see Nicotinamide).
Nitric, 36° Be, cbys., c.l., works, E 100 lbs. 5.75 - —
l.c.l., works, E 100 lbs. 6.05 - 6.85
38° Be, cbys., c.l., works, E. 100 lbs. 6.25 - —
l.c.l., works, E 100 lbs. 6.55 - 7.35
40° Be, cbys., c.l., works, E. 100 lbs. 6.75 - —
l.c.l., works, E 100 lbs. 7.05 - 7.85
42° Be, cbys., c.l., works, E. 100 lbs. 7.25 - —
l.c.l., works, E 100 lbs. 7.55 - 8.35
58.5 to 68% HNO_3, tanks, works, 100% basis 100 lbs. 3.90 - —
94½ to 95½% HNO_3, tanks, works, 100% basis 100 lbs. 4.90 - —

Acid, nitric, CP, NF, consumer, cbys., extra, c.l., works lb. .13½- —
l.c.l., same basis lb. .11¼- .11¾
5-pt. bots, extra, cs., c.l., same basis lb. .17½- —
l.c.l., same basis lb. .14¾- .20¾
p-Nitrobenzoic, dms., c.l., works. lb. .72 - —
l.c.l., works lb. .73 - —
Oleic, t.d., dms lb. .18½- .20½
tanks lb. .16½- —
dbl. dist. (white), dms. lb. .20½- .22½
tanks lb. .18½- —
Oleum (see Acid, sulfuric, fuming).
Orthochlorobenzoic (see Acid, o-Chlorobenzoic).
Orthocresotinic (see Acid, 2,3-Creosotic).
Oxalic, bbls., c.l., works lb. .16½- —
10,000-lb. lots, works lb. .16¾- —
smaller lots, works lb. .17¾- —
b-Oxynaphthoic, fib. dms., 250 lbs. or more, frt. alld lb. 1.14 - 1.17
Palm, dist., dms lb. .14¾- .16¾
tanks lb. .12¾- —
Para-aminobenzoic (see Acid, p-Aminobenzoic).
Para-aminosalicylic (see Acid, p-Aminosalicylic).
Parachlorobenzoic (see Acid, p-Chlorobenzoic)
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic (see Acid p-Nitrobenzoic)
Paratoluidinmetasulfonic (see Acid, p-Toluidine m-sulfonic)
Phenylacetic, pure, cryst. cns. lb. .75 - 1.70
Phenylcinchoninic (see Cinchophen).
Phenylglycolic (see mandelic).
Phosphoric, food grade, 75%, cbys., c.l., works, E., frt. equald 100 lbs. 6.75 - —
l.c.l., same basis 100 lbs. 7.00 - 7.50
tanks, works 100 lbs. 5.35 - —
80%, cbys., c.l., frt. alld. 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 7.85 - 9.10
NF, 85%, cbys., c.l., works lb. .0825- —
l.c.l., works lb. .0850- .0975
tanks, works lb. .0640- —

Acid, picric, NF, bbls lb. .60 - —
tech., bbls lb. .34 - .38
Propionic, syn., pure, dms., c.l., frt. alld. lb. .22¾- —
l.c.l., frt. alld lb. .23¾- —
tanks, frt. alld lb. .20¾- —
Pyrogallic, NF, (see Pyrogallol).
tech., bbls lb. 2.76 - 2.90
Ricinoleic (see Acid, castor oil, split).
S., bbls., works lb. 3.25 - —
Salicylic, crude, fib. dms., c.l., frt. alld lb. .35 - —
l.c.l., frt. alld. on 100 lbs. or more lb. .36 - —
sublimed, tech., fib. dms., c.l., dlvd lb. .37 - —
l.c.l., dlvd. lb. .41 - —
USP, cryst., fib. dms lb. .48 - —
powd., fib dms lb. .55 - —
Sebacic, purif., dms., c.l., works. lb. .59 - —
l.c.l., works lb. .61 - .65
Soybean oil, dbl. dist., dms lb. .18¾- .20¾
tanks lb. .16¼- —
s.d., dms lb. .17¼- .19¼
tanks lb. .15¼- —
Stearic, dbl. pressed, bgs lb. .15¼- .17¼
single pressed, bgs lb. .14¾- .16¾
triple pressed, bgs lb. .17½- .19¼
Succinic, purif., cryst., bbls., works lb. .62 - .75
Sulfanilic, tech., dms., c.l., frt. alld lb. .19 - —
l.c.l., frt. alld lb. .21 - —
Sulfuric 60° Be, cbys., c.l., works 100 lbs. 2.00 - —
t.c.l., works 100 lbs. 2.45 - —
tanks, works ton 18.60 - —
66° Be, cbys., c.l., works. 100 lbs. 2.25 - —
t.c.l., works 100 lbs. 2.35 - 3.35
tanks, works ton 22.35 - —
98% tanks, works ton 23.50 - —
99-100%, tanks, works ton 23.95 - —
CP NF, consumers, cbys., extra, c.l., works, frt. equald lb. .09¾- —
l.c.l., same basis lb. .11¼- .11¾
5-pt. bots., extra cs., c.l., works, frt. alld lb. .13¼- —
l.c.l., same basis lb. .14¾- .20¾
fuming (oleum), 20%, tanks, works ton 25.00 - —
40%, tanks, works ton 29.00 - —
65% tanks, works ton 39.50 - —
Tall, dms., c.l., works lb. .09 - .09½
tanks, works lb. .07½- .08
Tallow, dist., dms lb. .15¼- .17¼
tanks lb. .13¼- —
hydrogenated, dms lb. .14¼- .16¼
Tannic, NF, fluffy, bbls., 1,000-lb. lots lb. 2.05 - —
smaller lots lb. 2.06 - 2.10
powd., bbls., 1,000-lb. lots lb. 1.95 - —
smaller lots lb. 1.96 - 2.01
tech., dms lb. 1.05 - —
Tartaric, USP, dom., 230 or 250-lb. dms., c.l. lb. .47 - —
10,000-lb. lots, 1 shipt lb. .47½- —
smaller lots lb. .48 - —
100-lb. dms. lb. .49 - —
imported lb. .39½- .40
Thioglycolic, refd., cbys., 100% basis lb. 1.35 - 1.55
Thiosalicylic, purif., dms., 1,000-lb. lots, works lb. 4.00 - —
Tobias, bbls., frt. alld lb. .81 - —
p-Toluenesulfonic, dms., c.l., t.l., works lb. .16 - .17
l.c.l., works lb. .17½- .18
p-Toluene sulfonic, monohydrate, dms., c.l., or t.l. lb. .90 - —
125 lbs. to t.l. lb. 1.00 - —
p-Toluidine-m-sulfonic, bbls., works lb. .92 - 1.04
Trichloroacetic, bots. lb. 2.00 - 2.50
Trichlorophenoxyacetic (see 2,4,5-T).
Tungstic, tech., kgs., works lb. 4.25 - —
Undecylenic, dms lb. 1.40 - —
Aconite root, bls lb. .50 - .55
Acrolein, tech., dms., c.l., works lb. .47 - —
l.c.l., works lb. .47½- —
tanks, works lb. .46 - —
Acrylonitrile, dms., c.l., t.l., works. lb. .30 - —
l.c.l., l.t.l., works lb. .31 - —
tanks, works lb. .27 - —
ACTH, cryst., bulk, 1,000 units/gram, bots. gram 15.00 - —
Adeps lanae (see Lanolin).
Adrenocorticotropic hormone (see ACTH).
Agar, USP, Kobe No. 1, strip, bls. lb. 3.00 - 3.25
powdered, 30 mesh, fib., dms lb. 3.40 - 3.50
dl-Alanine, dms., works lb. 8.50 -11.00
Albumin, blood, dark (see Blood, dried, soluble).
light, dms. lb. .65 - .90
Egg, edible, cryst., powd., bbls. lb. 2.04 - 2.06
flake lb. 2.00 - 2.02
tech., cryst., bbls lb. 1.10 - —
Alcohol, allyl, dms., c.l. dlvd lb. .32 - —
l.c.l., dlvd lb. .33 - —
tanks, dlvd lb. .30 - —
Amyl, ex fusel oil (see Fusel oil, refd.)
ferment., refd., 128°-132°C., dms., l.c.l., dlvd lb. .43 - —
ACS grade, dms., l.c.l., dlvd lb. .45 - —
ex-pentane, mixed, amyls, dms., c.l., frt. alld lb. .18 - —
l.c.l., frt. alld lb. .19 - —
tanks, frt. alld lb. .15½- —
primary, dms., c.l., frt. alld. lb. .19¼- —
l.c.l., frt. alld lb. .20¼- —
tanks, frt. alld lb. .17¼- —
sec-synthetic, dms., c.l., works, frt. alld lb. .18½- —
l.c.l., works lb. .19½- —
tanks, works lb. .16½- —
tert-synthetic, dms., c.l., frt. alld. E lb. .18 - —
l.c.l., frt. alld E lb. .19 - —
tanks, frt. alld E lb. .15½- —
1-pentanol, (syn. normal), dms., c.l., works lb. .41½- —
l.c.l., works lb. .42½- —
tanks, works lb. .39½- —
2-pentanol, dms., c.l., works lb. .65 - —
l.c.l., works lb. .70 - —
tanks, works lb. .60 - —
Benzyl, NF, dms lb. .64 - .79
tech., dms., dlvd lb. .47½- .49
n-Butyl, ferment., dms., c.l., frt. alld lb. .16 - —
l.c.l., frt. alld lb. .17 - —
tanks, frt. alld lb. .13½- —
synthetic, dms., c.l., dlvd lb. .16 - —
l.c.l., dlvd lb. .17 - —
tanks, dlvd lb. .13½- —
sec-synthetic, dms., c.l., dlvd. lb. .13½- —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .11½- —
tert-synthetic, dms., c.l., frt. alld. lb. .14 - —
l.c.l., frt. alld lb. .15 - —
tanks, frt. alld lb. .12 - —
Capryl, 95%, dms., c.l., works lb. .21½- —
l.c.l., works lb. .22½- .23½
tanks, works lb .19½- —
Cetyl, extra, fib. cns., 500-lb. lots or more lb. .65 - .72
NF, fib. cns., 140-lb. lots or more lb. .48 - —
Cinnamic, bots lb. 2.15 - 2.75
Decyl mixed isomers, dms., c.l., dlvd. lb. .23½- —
l.c.l., dlvd lb. .24½- —
tanks, dlvd lb. .21 - —
normal (see 1-Decanol).

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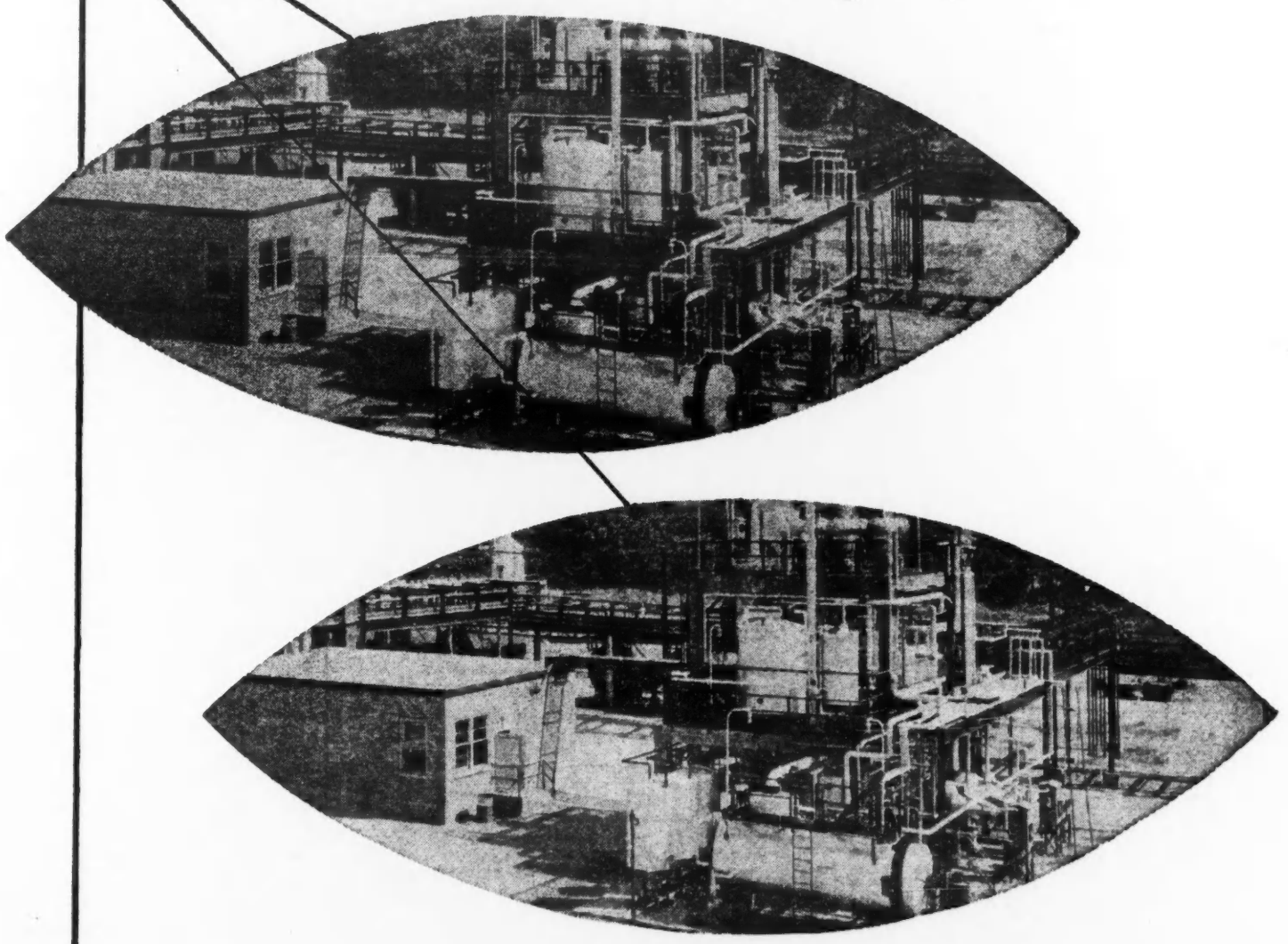

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Allied Chemical

Alcohol, denat., CD12, CD13, CD14, CD17, dms., c.l., dlvd. E. of Rockies gal. .59½- —
l.c.l., same basis gal. .64½- .70½
tanks, dlvd., same basis, gal. .43½- —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Div.

Proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .62 - —
l.c.l., same basis gal. .66 - .72
tanks, same basis gal. .45 - —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Div.

SD1, dms., c.l., dlvd. E. of Rockies gal. .60½- —
l.c.l., same basis gal. .65½- .71½
tanks, same basis gal. .44½- —

SD2B, dms., c.l., dlvd. E. of Rockies gal. .59 - —
l.c.l., same basis gal. .64 - .70
tanks, same basis gal. .43 - —

SD3A, dms., c.l., dlvd. E. of Rockies gal. .58 - —
l.c.l., same basis gal. .63 - .71
tanks, same basis gal. .42 - —

SD23A, dms., c.l., dlvd. E. of Rockies gal. .60½- —
l.c.l., same basis gal. .65½- .71½
tanks, same basis gal. .44½- —

SD23H, dms., c.l., dlvd. E. of Rockies gal. .61 - —
l.c.l., same basis gal. .66 - .72
tanks, same basis gal. .45 - —

SD29, dms., c.l., dlvd. E. of Rockies gal. .59½- —
l.c.l., same basis gal. .64½- .70½
tanks, same basis gal. .43½- —

SD30, dms., c.l., dlvd. E. of Rockies gal. .58 - —
l.c.l., same basis gal. .63 - .69
tanks, same basis gal. .42 - —

SD35A, dms., c.l., dlvd. E. of Rockies gal. .61 - —
l.c.l., same basis gal. .66 - .72
tanks, same basis gal. .45 - —

SD40, dms., c.l., dlvd. E. of Rockies gal. .59 - —
l.c.l., same basis gal. .64 - .70
tanks, same basis gal. .43 - —
West coast dlvd. prices are the same as eastern prices, except in Idaho, Montana, Oregon and Washington, where a 5c. differential on tankcars is maintained.

Diacetone, acetone-free, dms., c.l., dlvd lb. .14½- —
l.c.l., dlvd lb. .15½- —
tanks, dlvd lb. .12 - —

tech., dms., c.l., dlvd lb. .14 - —
l.c.l., dlvd lb. .15 - —
tanks, dlvd lb. .11½- —

Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies gal.20.53 - —
l.c.l., same basis gal.20.58 -20.64
tanks, same basis gal.20.37 - —
tax free, dms., c.l., dlvd. E. of Rockies gal. .58 - —
l.c.l., same basis gal. .63 - .69
tanks, same basis gal. .42 - —
absolute, 200 pf. tax paid, dms., dlvd. E. of Rockies gal.21.63 - —
l.c.l., same basis gal.21.68 -21.74
tanks, same basis gal.21.47 - —

2-Ethylbutyl, dms., c.l., works lb. .29½- —
l.c.l. works lb. .30 - —
tanks, works lb. .28 - —

2-Ethylhexyl, dms., c.l., dlvd. E. lb. .23¾- —
l.c.l., same basis lb. .24¾- —
tanks, same basis lb. .21¾- —

Furfuryl cns., works lb. .29 - —
dms., c.l., Memphis, Tenn. lb. .20 - —
Newark, N. J. lb. .21½- —
l.c.l., Memphis, Tenn. lb. .21 - —
Newark N. J lb. .22½- —
tanks, Memphis, Tenn lb. .184 - —

Hydroabietyl, tech., solid, Zone 1, dms. c.l., dlvd lb. .27 - —
l.c.l., dlvd lb. .27½- —
tanks, dlvd lb. .25 - —

Isoamyl, dms., c.l., works, frt. alld. E lb. .28 - —
l.c.l., same basis lb. .29 - —
tanks, same basis lb. .25 - —

Isobutyl, dms., c.l., dlvd lb. .15 - —
l.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .12½- —

Iso-octyl, dms., c.l., dlvd. E lb. .23½- —
l.c.l., dlvd E lb. .24½- —
tanks, dlvd E lb. .21 - —

Isopropyl, refd., 91%, dms., c.l., dlvd gal. .53 - —
l.c.l., dlvd gal. .60 - —
tanks, dlvd gal. .37 - —
95%, c.l., dlvd gal. .55 - —
l.c.l., dlvd gal. .62 - —
tanks, dlvd gal. .39 - —
99%, dms., c.l., dlvd gal. .57 - —
l.c.l., dlvd. gal. .64 - —
tanks, dlvd gal. .41 - —

Lauryl, bots lb. 2.00 - 2.50

Methyl (see Methanol).

Methylamyl (see Methyl isobutyl carbinol).

Octyl, perfumer's grade, bots lb. 1.75 - 3.25
tech. (see Octanol, normal).

2-Phenylethyl, extra, dms lb. 1.14 - 1.45
standard, dms lb. 1.18 - 1.48

n-Propyl, dms., c.l., dlvd lb. .13 - —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .10½- —

Tetrahydrofurfuryl, dms., c.l. or t.l., f.o.b. Memphis, Tenn lb. .37 - —
l.c.l. or l.t.l., f.o.b. Memphis, Tenn lb. .38 - —
f.o.b. Newark, N. J lb. .40 - —
tanks, dlvd. E. of Denver lb. .365 - —
dlvd. W. of Denver lb. .375 - —

Tridecyl, mixed isomers, dms., dlvd lb. .28½- —
l.c.l., dlvd lb. .27½- —
tanks, dlvd lb. .24 - —

Wood (see Methanol).

Aldol, 95%, dms., works lb. .23 - —
denaturing grade, dms gal. 2.15 - —

Aldrin, tech., fib. dms., c.l., t.l., dlvd lb. .80 - —
l.c.l., dlvd lb. .85 - —

Aletris root, bgs lb. 1.75 - 1.85

Algin (see Sodium alginate).

Alizarine (see 1,2-dihydroxy anthraquinone).

Allethrin, 90%, dms., frt. alld lb.28.80 -28.90
soln., 20% dms., 200-2,000 lb. lots, frt. alld lb. 6.50 - 6.55
2½% dms., frt. alld lb. .95 - 1.00

Allspice (see Pimento).

Allyl bromide, cbys., works lb. 1.45 - 1.50
Chloride, dms., c.l., dlvd lb. .17 - —
l.c.l., dlvd lb. .18 - —
tanks, dlvd lb. .15 - —

Aloe, Cape, cs lb. .45 - .48
powd., cs lb. .50 - —

Curacao, kgs lb. .50 - .55

Aloin, USP, bbls., dms., kgs lb. 3.75 - 3.82

Alphanaphthol (see a-Naphthol).

Alphanaphthylamine (see a-Naphthylamine).

Alphanitronaphthalenet see a-Nitronaphthalene).

Alphapicoline (see a-Picoline).

Alphaterpineol (see a-Terpineol).

Alphatocopherol (see a-Tocopherol).

Alum, ammonium, gran., bgs., works 100 lbs 4.30 - —
lump, dms., works 100 lbs 5.05 - —
powd. dms. works 100 lbs 5 20 - —
USP, burnt, dms lb .20 - .21
hydrous dms lb 07¾ - 08
Potassium, gran, bgs., works 100 lbs. 4.55 - —
lump, dms. works 100 lbs 5 30 - —
powd., dms., works 100 lbs 5 45 - —
USP, burnt dms lb .20 - .21
hydrous dms lb 07¾ - 08
Potash-chrome dms lb 17 - —
Sodium, dms, c.l. works 100 lbs 4.60 - —
l.c.l works 100 lbs 5 00 - —

Alumina calcined bgs. c.l. works lb. .0425- —
l.c.l., works lb. 045 - .0725

Aluminum acetate, basic soln., 24%, bbls. l.c.l. works lb .14 - —

Chloride coml anhyd. dms c.l., works, frt. equald lb. .15½- —
l.c.l. works frt equald. lb. .16 - —
cryst., dms. c.l., works lb .1450- —
l.c.l., works lb .1500- —
soln 32° cbys. c.l. works lb 0445- —
l.c.l. works lb 0520- 129
tanks works 100 lbs 3 45 - —
Nit gran. dms., works lb. .29 .30
Fluoride tech. anhyd., bgs., c.l., works lb. .15¾ -
l.c.l. works lb. .16¾ .18¾
Aluminum fluoride in fib dms. 0.35c per lb higher

Formate basic soln., dms., c.l., works lb. .12 - —
l.c.l. works lb. .12½- —
Hydrate heavy, bgs., c.l., frt. equald lb. .0295- —
20,000-40,000 lb. lots, same basis lb. .032 - —
2,000-20,000 lb lots, same basis lb. .042 - —
bulk, same basis lb. .027 - —
light bgs. dlvd lb. .18 - —
Hydroxide, gel., pharmaceutical, 14-15% Al_2O_3, fib. dms., works lb. .22 - —
contract works lb. 21 - —
9-9½% Al_2O_3, fib. dms., works lb. .19 - —
contract, works lb. .18 - —
dried, USP XIV, fib. dms., works lb. .82½- —
contract works lb. 79½- —
tech. powder (see Aluminum hydrate).
Metal, 99%+ ingots, 10,000-lb. lots, frt. alld lb. .2590- —
pigs 10,000-lb lots, frt alld. lb. .2400- —
Oxide, amorphous (see Alumina, calcined)
Paste, lining, extra-fine, dms lb. .66½- —
standard grade, dms lb. .46½- —
Powder, lining, extra fine, dms. lb. 1.07 - —
standard grade, dms lb. .76½- —
Aluminum powder and paste prices are f.o.b shipping point. Add 1c. per lb. for 100-lb dm. 1½c. per lb for 50-lb. dm., 3c. per lb. for 10 lb. can and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs. and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S. a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over

Resinate, precip., 2.1 Al, dms., frt. alld lb. .30½- —
Stearate, dibasic, ctns., c.l. lb. .37 - —
l.c.l. lb. .38 - .42
monobasic, ctns., c.l. lb. .37 - —
l.c.l. lb. .38 - .42
tribasic, ctns., c.l. lb. .37 - —
l.c.l. lb. .38 - .42
Sulfate coml., bulk, c.l., works 100 lbs. 1.85 - —
grd., bgs., c.l., works ton 37 00 - —
lump bgs., c.l., works ton 40 00 - —
iron-free, bgs., c.l. works, frt. equald 100 lbs. 3.55 - —
l.c.l., works, frt. equald. 100 lbs 3 95 - —
Prices $1 per ton higher in the south.
USP, gran., dms., works lb. .16 - .18
powd., dms., works lb. .36 - .37
Trihydrate, heavy (see Aluminum hydrate, heavy).

Ambergris, gray, bots oz. 8.00 -10 00

Aminoazotoluene base, bbls., 100% basis lb. 1.03 - 1.18

Aminoethyl ethanolamine, dms., c.l., dlvd lb. .46½- —
l.c.l., dlvd lb. .45 - —
tanks, dlvd lb. .45 - —

2-Amino-2-methyl-1-propanol, dms., c.l., frt. alld lb. .44 - —
l.c.l., frt. alld lb. .45 - —
tanks, frt. alld lb. .42 - —

m-Aminophenol, dist., dms., ton lots. lb. 2.05 - —
smaller lots lb. 2.50 - —

p-Aminophenol, dms., frt. alld lb. 1.15 - —

Aminophylline, USP, 100-lb. dms lb 3.55 - —

Ammonia, anhyd. fertilizer, tanks, works, frt. equald ton 85 00 - —
refrigeration, tanks, works, frt. equald ton.87.50 - —
aqueous (29.4% NH_3), dms., c.l., dlvd. Metropolitan area 100 lbs. 3.60 - —
l.c.l., works 100 lbs. 4.00 - —
tanks, works, anhyd. basis ton 88.00 - —

Ammoniacal liquor (see Ammonia, aqueous).

Ammoniac, sal, gray, bgs., c.l., works, frt equald 100 lbs. 8.25 - —
l.c.l., same basis 100 lbs. 8.65 -11.15
white, gran. (see Ammonium chloride, tech.).

Ammonium acetate, purif., dms lb. .38 - —

Benzoate, USP, dms., kgs. 4,000-lb. lots frt. alld lb. .80 - —
smaller lots, frt. alld lb. .81 - 1.08

Biborate, gran., dms., c.l., works. ton.319.50 - —
ton lots, ex whse ton.395.00 - —
smaller lots, ex whse ton.400.00 - —

Bicarbonate dom., dms., c.l., works. 100 lbs. 6.50 - —
l.c.l., works 100 lbs. 8.00 - —
imp., dms. l.c.l. lb. .07¼- .08½

Bichromate, dms., works lb. .42 - .43

Bifluoride, dms., dlvd lb. .2145- .2245

Bromide, NF, gran., bbls lb. .43 - —
Powdered ammonium bromide 10c. per lb. higher.

Carbonate, USP, lump, dms lb. .16 - —

Ammonium chloride, tech., fine gran., bgs., c.l., works 100 lbs. 8.25 - —
l.c.l., works 100 lbs. 7.00 - —
USP, gran., bbls., dms lb. .17½- —
Citrate, dibasic, bbls lb. .77 - —
Dichromate (see Ammonium bichromate).
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia acqueous).
Hypophosphite, NF, dms lb. 3 07 - —
Iodide, NF, dms., bots lb. 4.26 - 4.38
Linoleate, 80%, dms., works lb. .50 - .55
Nitrate dom. fertilizer grade, 33.5% N., bgs., western works frt. equald ton.68.00 - —
with dolomite, 20.5% N, bgs., Hopewell, Va ton.51.00 - —
imp., Canadian, 35.5% N., eastern bgs., c.l., ship't point, frt. equald to $8 per ton. ton.70.00 - —
western, bgs., c.l., f.o.b. cars, Los Angeles ton.79.76 - —
Oxalate fine gran., dms lb. .26½- .31
Pentaborate, gran., bgs., c.l., works ton.187.50 - —
ton lots, ex whse ton.271.50 - —
smaller lots, ex whse ton.276.50 - —
Ammonium pentaborate powder $10 per ton higher.
Persulfate, kgs lb. .38 - .47½
Phosphate, coml., bgs., c.l., works, frt. equald lb. .09 - —
l.c.l., same basis lb. .0935- —
dibasic, NF, V bbls., dms. lb. .46 - —
tech., bgs. c.l., works, frt. equald lb. .09 - —
l.c.l., same basis lb. .0935- —
Salicylate, NF, dms., kgs lb. 1.62 - 1.64

Silicofluoride, dms., works lb. .11¾- .13¼

Sulfamate, bgs., c.l., t.l., works lb. .18 - —
l.c.l., works lb. .22 - —
Sulfate coke-oven bulk producing ovens, base price ton.32.00 - —
syn., bulk, c.l., f.o.b. works ton.32.00 -42.00
purif., dms., works lb. .09 - .09½
Sulfide, liq., 40-44%, tanks, frt. equald., 100% basis ton.160.00 - —
Sulfocyanide, tech (see Ammonium thiocyanate).
Thiocyanate tech. dms., c.l., works lb. .20 - —
l.c.l. works lb. .22 - .28
Thioglycollate, coml., cbys., 100% basis lb. 1.35 - 1.55
highly purif. cbys. 100% basis. lb. 1.70 - 1.96
Thiosulfate cryst., photo grade, fib. dms., frt. alld lb. .65 - —
60% soln dms. c.l works lb. .06½- —

d-Amphetamine hydrochloride, dibasic, bots lb.28.00 - —
dl, dms lb. 6.00 - —
d-monobasic, bots lb.28.00 - —
d-Phosphate, dibasic, bots lb.28.00 - —
dl, dms lb. 6.00 - —
d-Sulfate, dms. lb.28.00 - —
dl, dms lb. 6.00 - —

Amyl acetate, ex fusel oil, tech., dms., c.l. frt. alld. E. of Rockies lb. .18 - —
l.c.l., same basis lb. .19 - —
tanks, same basis lb. 15½- —
syn., oxo process, dms., c.l., dlvd lb. .19¼- —
l.c.l., dlvd lb. .20¼- —
tanks, dlvd lb. .17¼- —
ex pentane, reg., dms., c.l., dlvd. lb. .18 - —
l.c.l., dlvd lb. .19 - —
tanks, dlvd lb. .15½- —
tech., dms., c.l., dlvd lb. .16 - —
l.c.l., dlvd lb. .17 - —
tanks, dlvd lb. .13½- —

Alcohol (see Alcohol, amyl).

n-Butyrate, dms lb. .90 - 1.25
Cinnamic, aldehyde, dms lb. 1.75 - 2.20
Nitrite, USP, bots lb. 1.75 - 1.83
Salicylate, cns., dms lb. .74 - 1.05

o-tert-Amyl phenol, dms., c.l., works. lb. .48 - —
l.c.l., works lb. .49 - —
tanks, works lb. .46 - —

p-tert-Amyl phenol dms. c.l., works. lb. .25¾- —
l.c.l., works lb. .26¾- —
tanks, works lb. .24¾- —

Anethole, NF, cns., dms lb. 1.85 - —
tech., dms lb. 1.10 - 1.15

Angelica root, dom. bls lb. .60 - .70

Aniline oil, dms., c.l., frt. alld lb. .21 - —
l.c.l., frt. alld lb. .22 - —
tanks, frt. alld lb. .20 - —
tankwagons, min. 2,000 gals. lb. .20½- —

Salt, dms., c.l., truckloads, 20,000 lbs., min., frt. alld lb. .31 - —
l.c.l., same basis lb. .33 - —

Anise seed, Mexican, bgs lb. .29 - .30
Spanish, bgs. lb. .28 - .29

Anisic aldehyde, bots., dms lb. 1.80 - 2.70

o-Anisidine, dms., c.l., frt. alld lb. .80 - —
l.c.l., same basis lb. .82 - —
tanks, same basis lb. .78 - —

p-Anisidine, dms., works lb. .97 - —

Annatto seed, whole, bgs lb. .15 - .17

Anthracene, 90-95%, bbls., ton-lots, works lb. .83 - —
smaller lots, works lb. .95 - —

Anthraquinone, 99.5%, bbls, c.l., frt. alld lb. .83 - —
l.c.l., same basis lb. .86 - —
electrical grade, bbls., l.c.l., same basis lb. .91 - —

Antimony butter (see Antimony trichloride).
Metal, bulk, c.l., mines lb. .33 - —
cs., c.l., mines lb. .33½- —
Oxide, bgs., c.l., frt. alld lb. .27 - —
l.c.l., frt. alld lb. .28½- —
Sulfide, approx. 65%, bgs., dlvd lb. .23 - .26
Trichloride, anhyd., solid, pails, c.l., works lb. .41 - —
l.c.l., works lb. .43 - —

Antimony-potassium tartrate, tech., powd., dms lb. .65½- .70½
USP, powd., dms lb. .70½- .71½

Antipyrine, NF, 200-lb. bbls lb. 3.50 - —

Apomorphine hydrochloride, USP, 5 oz. lots, bots oz.35.60 - —

Areca nuts, powd., bbls lb. .15 - .16

Arecoline hydrobromide, NF, bots., tins oz. 4.50 - 6.00

l-Arginine monohydrochloride, dms., 1 kilo lots kilo.74.80 - —

Arnica flowers (true montana), bls. lb. No prices.

Arsenic metal, lump, bbls., ex whse. lb. .54 - —
Trioxide, USP, dms lb. .48 - —
White, powd., bbls., c.l., dlvd. lb. .05½- —
l.c.l., dlvd lb. .06½- .07½

Asafetida, cs lb. .36 - .39
powd., bbls., dms lb. .50 - .63

Asbestine (see Talc, tinrous, N. Y.)

Asbestos, Canadian, crude, No. 1, c.l. (20 tons) mines ton.1,400.00- —
No. 2, c.l. (20 tons), mines ton.750.00 - —
Run-of-mine, c.l. (20 tons) mines ton.611.60 - —
3K, c.l. (20 tons), mines ton.480.00 - —
3R, c.l., (20 tons), mines ton.406.10 - —

Asbestos, Canadian, crude, 3T, c.l. (20 tons), mines ton.382.80 - —
3Z, c.l. (20 tons), mines ton.353.10 - —
4K, c.l. (20 tons), mines ton.190.30 - —
4M, c.l. (20 tons), mines ton.190.30 - —
4T, c.l. (20 tons), mines ton.171.60 - —
4Z, c.l. (20 tons), mines ton.171.60 - —
5D, c.l. (20 tons), mines ton.135.00 - —
5K, c.l. (20 tons), mines ton.135.00 - —
5M, c.l. (20 tons), mines ton.122.35 - —
5R, c.l. (20 tons), mines ton.115.50 - —
6D, c.l. (30 tons), mines ton.82.00 - —
7D, c.l. (30 tons), mines ton.72.00 - —
7F, c.l. (30 tons), mines ton.68.25 - —
7H, c.l. (30 tons) mines ton.58.00 - —
7K, c.l. (30 tons), mines ton.48.30 - —
7M, c.l. (30 tons), mines ton.42.00 - —
7R, c.l. (30 tons), mines ton.41.00 - —
7RF, c.l. (30 tons), mines ton.42.00 - —
7T, c.l. (30 tons), mines ton.39.00 - —
7TF, c.l. (30 tons), mines ton.42.00 - —
8S, c.l. (30 tons), mines ton28.35 - —
Asbestos c.l. prices are in U. S. funds, t.c.l. lots $4 per ton higher.

Asphalt, gilsonite, black jet, bgs., c.l., mines ton 37 00 - —
select, 350° F. fusing pt., bgs., c.l., mines ton.38.00 - —
270°-295°F., fusing pt., bgs., c.l., mines ton.37.00 - —
seconds, 300°-390°F. fusing pt., bgs., c.l., mines ton.32.00 - —

Manjak, No. 10, crude, dms., works lb. .06¼- —

Petroleum, cut-back, tanks, tankwagon, refy. gal. .09 - —
emulsion, tanks, tankwagon, refy. gal. .09½- —
steam-refd., 50-80 penetration, tanks, tankwagon, refy ton.21 00 - —
85-300 penetration, tanks, tankwagon, refy ton 20 00 - —

Aspirin, (see Acid acetylsalicylic).

Atropine, USP, bots oz. 3.90 - —
Sulfate, USP, bots oz. 2.45 - 2.65

B

Bacitracin bulk, 1,000,000,000 or more units 50,000 units. .70 - —
less than 1,000,000,000 units. 50,000 units. .75 - —

Balm of Gilead buds, dried, bgs lb. 1.35 - 1.45

Barberry root bark, bgs lb. 28 - .30

Barbital, USP, 100-lb. dms lb. 4.50 - —
Sodium, USP, dms lb. 4.75 - 4.77

Barium carbonate, precip., bgs., c.l., works ton.100.00 - —
smaller lots, works ton.110.00 - —
Chlorate, kgs., works lb. .32 - .36
Chloride anhyd., bgs., c.l., works. ton.165.00 - —
l.c.l., works ton.175.00 - —
NF, cryst., dms lb. .20 - —
tech., cryst., bgs., c.l., works. 100 lbs. 6.50 - —
l.c.l., works 100 lbs. 7.00 - —
Chromate, bgs., frt. equald lb. .35 - —
Dioxide (see Barium peroxide).
Hydrate, cryst., bgs., c.l., t.l., frt. equald ton.200.00 - —
l.c.l., l.t.l., frt. equald ton.210.00 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., t.l., dlvd lb. .16 - —
l.c.l., l.t.l., dlvd lb. .17 - —
Oxide, grd., dms., c.l., t.l., frt. equald ton.275.00 - —
l.c.l., l.t.l., frt. equald ton.285.00 - —
Peroxide, dms., frt. equald lb. .20 - —
Stearate, ctns., c.l., frt. alld lb. .39 - —
l.c.l., same basis lb. .40 .44

Sulfate, tech. (see Barytes and blanc fixe).
X-ray, dms lb. .15 - .15½
Sulfide, dms., c.l., works ton.85.00 - —
l.c.l. works ton.95.00 - —

Barytes, Southern, off-color, bgs., mines ton.25.00 - —
95-75%, bgs., mines ton.25.00 - —
water-grd., paper bgs., c.l., St. Louis ton.45.00 - —
ex-whse, N. Y. ton.65.85 - —

Bauxite, bulk, mines ton. 6.75 -10.00

Bay leaves (see Laurel leaves).

Belladonna leaf, bls lb. .35 - .37
root, bls lb. .45 - .50

Bentonite, dom., 200 mesh, bgs., c.l., mines ton.14.00 - —
imp. Italian, white, high gel., bgs., 5-ton lots, ex whse ton.80.60 - —
1 ton-lots, ex whse ton.83.10 - —
low gel., bgs., 5-ton lots, ex whse ton.78.95 - —
1-ton lots, ex whse ton.81.45 - —

Benzal chloride, cbys., works lb. .44 - —

Benzaldehyde, NF, dms lb. .74 - 1.05
tech., cbys., t.l., dms lb. .43 - —
smaller lots lb. .44 - —

Benzene (See Benzol).
Hexachloride, 25% and 99% gamma isomer (see Lindane).
tech., high gamma, dms., c.l., dlvd., gamma unit-lb. .0075- .008
l.c.l., works, gamma unit-lb. .009 - .0095
low gamma, dms., c.l., dlvd. gamma unit-lb. .0075- —
l.c.l., works, gamma unit-lb. .009 - —

Benzidine hydrochloride, bbls., c.l., frt. alld., 100% basis lb. 1.03 - —
l.c.l., same basis lb. 1.05 - —
Sulfate, tech., frt. alld, 100% basis lb. 1.05 - —

Benzocaine, dms. lb. 3.48 - 3.50

Benzol, coaltar, pure or nitration, tanks, works:—
Bethlehem, Pa. gal. .36 - —
Birmingham district gal. .36 - —
Chicago district gal. .36 - —
Cleveland district gal. .36 - —
Geneva, Utah gal. .36 - —
Johnstown, Pa. gal. .36 - —
Lackawanna, N. Y. gal. .36 - —
Lone Star, Texas gal. .36 - —
Lorain, Ohio gal. .36 - —
Middletown, Ohio gal. .36 - —
Minnequa, Colo gal. .36 - —
Philadelphia district gal. .36 - —
Pittsburgh district gal. .36 - —
Sparrows Point, Md. gal. .36 - —
Syracuse, N. Y. gal. .36 - —
Terre Haute, Ind. gal. .36 - —
Youngstown, Ohio gal. .36 - —

Benzophenone, dms. lb. 1.40 - 1.70

Benzotriazole, tech., dms., 1,000-lb. lots, works lb. 2.25 - —

Benzotrichloride, cbys., 1,000-lb. lots or more, frt. equald lb. .18 - —
smaller lots, frt. equald lb. .20 - —

Benzoyl chloride, cbys., dms., c.l., works, frt. equald lb. .21 - —
l.c.l., same basis lb. .23 - —
tank trucks, dlvd. Metropolitan area lb. .21 - —

Peroxide, purif., fib. dms., 50 to 1,000-lb. lots, works lb. .98 - 1.08

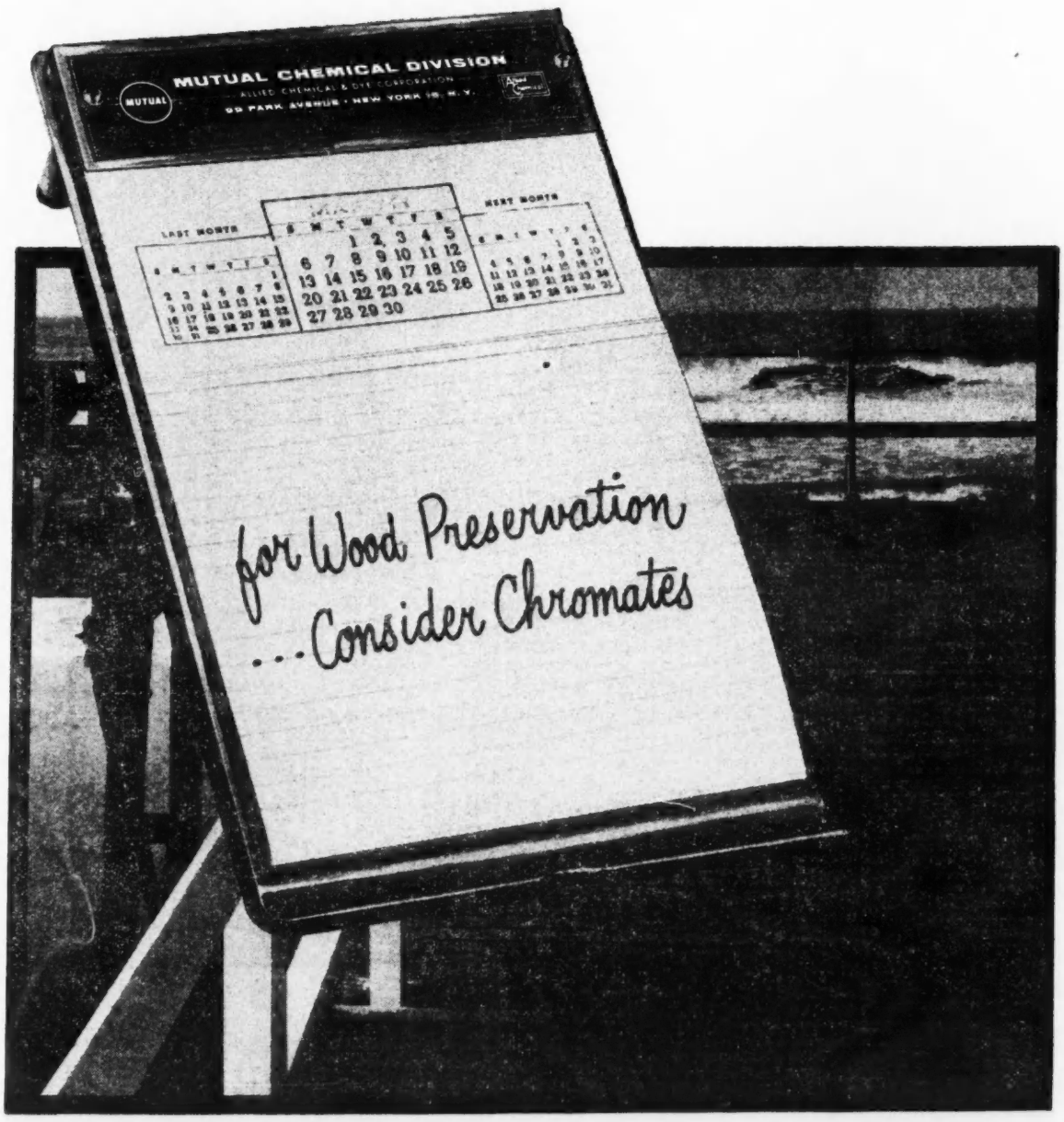
Benzyl acetate, f.f.c., cns., dms lb. .62 - 1.04
Alcohol (see Alcohol, benzyl).
Benzoate, USP, f.f.c., cns., dms. lb. .62 - 1.10

Benzyl chloride, tech., 13-gal. cybs., dms., c.l., works, frt. equald. lb. .23 - —
l.c.l., same basis lb. .24 - —
tank, trucks, dlvd. Metropolitan area lb. .21 - —
A 2½c. differential is quoted on benzyl chloride in 5-gal. cbys. in steel dms. prices were ½c. lower.
Cinnamate, cns lb. 3.60 - 3.90
Dimethylamine, 55-gal. dms., lots, works lb. 2.25 - —
Formate cns. lb 1.30 2.10
Isoeugenol, cns. lb 8.60 9.10
Propionate, bots. lb 1.35 1.65
Salicylate, bots lb. 1.50 - 1.85
Benzylidine acetone, bots lb 1.68 1.80
Chloride (see Benzal chloride).
Berberine bisulfate, cns lb.35.00 -36.25
Hydrochloride, bots. lb.35.00 -36.25
Betagammapicoline (see b,g-Picoline).
Betamethylnaphthalene (see b-Methylnaphthalene).
Betanaphthol (see b-Naphthol).
Betanaphthylamine (see b-Naphthylamine).
Betaphenylethylamine (see b-Phenylethylamine).
BHC (see Benzene hexachloride technical).
Biotin cryst., bots gram 10.00 - —
Biphenyl (see Diphenyl).
Bismuth chloride, crs. lb. 5.11 - —
Hydroxide, dms lb 4.65 - —
Metal, bxs. ton lots lb 2.25 - —
Nitrate, cryst., dms lb 2.10 - 2.17
Oxide, anhyd., dms lb 4.47 - 5.05
Oxychloride, dms lb 4.37 - 4.42
Phenolsulfonate, fib. dms. lb 5.22 - —
Subcarbonate, USP, dms. lb. 3.20 - —
Subgallate, NF, fib. dms. lb. 3.15 - —
Subiodide, fib. dms. lb. 5.37 - —
Subnitrate, NF, dms lb 2.65 - —
Subsalicylate, USP, dms lb 3.50 - —
Bismuth-ammonium citrate, USP, powd., jars lb. 4.22 - —
Bisphenol-A, c.l., t.l., frt. alld. lb. .29¾ - —
l.c.l., same basis lb. 30¾ - —
Black, acetylene, imp., bgs., c.l., duty and freight extra lb. .17 - —
cs., l.c.l., ex whse lb. .22½ - .26
Ash (see Barium sulfide).
Bone, dms., l.c.l., frt. alld. lb. .17 - .23¼
Pacific coast bone black prices 2c. per lb. higher.
Carbon, channel, pigment, high color, beads, ctns., c.l., works. lb. .72 - —
l.c.l., dlvd or whse lb. .78 - —
medium color, uncompressed, bgs. c.l., works. lb. .12 - —
l.c.l., dlvd or whse. lb. .19 - —
rubber, beads, bulk, c.l., works lb. .07 - —
bgs., c.l., works lb. .074 - —
l.c.l., works lb. .1225 - —
furnace, fast extruding, bgs., c.l., works lb. .06 - —
ctns., l.c.l., whse lb. .10 - —
high abrasion, bulk, c.l., works. lb. .0750 - —
bgs. c.l. works lb. .0790 - —
l.c.l., dlvd. or whse lb. .122 - .123
high modulus, bgs., c.l., works. lb. .0550 - —
ctns., l.c.l., whse lb. .0950 - —
semi-reinforcing bgs., c.l., works lb. .045 - —
bgs., ctns., l.c.l., whse lb. .085 - —
Charcoal (see C).
Dyes (see Dyes).
Graphite (see G).
Iron oxide, pure, bgs., c.l., works. lb. .13¼ - —
l.c.l., works lb. .13½ - —
Lamp, bgs., c.l., works lb. .16 - .45
Mineral, bgs., works lb. .0160 - .0675
Blackberry root bark, bls lb. .45 - —
Black haw root bark, bls lb. .63 - .65
tree bark, bls. lb. .40 - .45
Blanc fixe, dry, byproduct, bgs., c.l., works ton.190.00 - —
l.c.l., works ton.200.00 - —
direct process, bgs., c.l., works. ton.110.00 - —
l.c.l., works ton.120.00 - —
N. Y. whse ton.155.00 - —
Blood, dried, 16-16½% ammonia, bgs unit-ton. 4.50 - —
high-grade, unground, 16-17% ammonia, bgs., Chicago. unit-ton. 5.25 - —
soluble, bgs., c.l. lb. .13 - .15
l.c.l. lb. .15½ - .19½
Bloodroot, bls lb .48 - .50
Blue, alkali, dry, 250-lb. bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 2.10 - —
toner, 125-lb. bbls., litho flushed, same basis lb. 1.20 - —
Chinese, bbls., c.l., same basis lb. .50 - —
l.c.l., ton lots, same basis lb. .51 - —
smaller lots, same basis lb. .52 - —
Cobalt, genuine, bbls., same basis. lb. 4.90 - —
Imitation (see Blue, ultramarine).
Dyes (see Dyes).
Iron (see Blue, Chinese Milori, Potash, Prussian and Soda).
Methyl, violet toner, molybdated, PMA, bbls., same basis lb. 2.73 - —
tungstated, PTMA, bbls., same basis lb. 4.00 - 4.15
Milori, bbls., c.l., same basis lb. .50 - —
l.c.l., ton lots, same basis lb. .51 - —
smaller lots, same basis lb. .52 - —
Peacock, fugitive, 100% color strength, bbls., same basis. lb. .85 - —
Phthalocyanine, full strength, bbls., same basis lb. 3.45 - —
resinated, bbls., same basis lb. 3.00 - —
water dispersable, bbls., same basis lb. 1.54 - —
Potash, CP, bbls., same basis lb. .56 - —
Prussian, insoluble, soluble, bbls., c.l., same basis lb. .50 - —
l.c.l., ton lots, same basis lb. .51 - —
smaller lots, same basis lb. .52 - —
Soda, CP, bronze, bbls., c.l., same basis lb. .50 - —
l.c.l., ton lots, same basis lb. .51 - —
smaller lots, same basis lb. .52 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .30½ - .33
jobbing types, bbls., same basis. lb. .19 - —
regular types, dry, bbls., same basis lb. .22½ - .33
Victoria toner, molybdated, PMA, bbls. lb. 4.10 - —
tungstated, PTMA, bbls. lb. 5.35 - —
Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport 1¼c.), Miss., N. C., S. C., Tenn., Tex. (El Paso 2c), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher. Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.
Vitriol (see Copper sulfate).
Bluestone (see Copper sulfate).
Bonemeal, steamed, works, E. ton.55.00 - —
Los Angeles ton.82.00 - —
Bone phosphate defluorinated (see D) of lime (see Calcium phosphate, tribasic).
precipitated (see Calcium phosphate tribasic, NF, precip.)

Borax, tech., anhyd., 99½%, bgs., c.l., works ton.80.50 - —
ton lots, ex whse., N. Y. or Chicago ton.130.25 - —
bulk, c.l., works ton.71.50 - —
cryst., 99½%, bgs., c.l., works. ton.69.25 - —
ton lots, ex-whse., N. Y. or Chi ton.119.00 - —
smaller lots, same basis. ton.124.00 - —
gran., decahydrate, 99½%, bgs., c.l., works ton.43.25 - —
ton lots, ex whse., N. Y., Chi ton.93.00 - —
smaller lots, same basis. ton.98.00 - —
bulk, c.l., works ton.36.75 - —
pentahydrate, 99½%, bgs., c.l., works ton.57.75 - —
ton lots, ex whse., N.Y., Chi ton.107.50 - —
smaller lots, same basis. ton.112.50 - —
bulk, c.l., works ton.51.50 - —
powd., 99½%, bgs., c.l., works. ton.48.25 - —
ton lots, ex-whse., N. Y. or Chi ton.93.00 - —
smaller lots, same basis. ton.103.00 - —
Borax packed in kgs., $45.50 per ton higher than in paper bgs.; in barrels, $24.50 higher. USP borax $13 per ton higher.
Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse, pt. lb. .18 - .24
l.c.l., same basis lb. .19 - .26
Borneol, cns lb. 2.50 - 4.5
Boron trifluoride gas, cyls., truckload, works lb. .62 - —
l.t.l., works lb. .70 - —
Brazilwood extract (see Hypernic extract).

Brimstone (see Sulfur).
Bromine, purif., cs., c.l., t.l., dlvd. E. of Rockies lb. .32 - —
l.c.l., same basis lb. .34 - .39
ret. dms., c.l., t.l. dlvd E of Rockies lb. .31 - —
l.c.l., same basis lb. .31 - .33
tanks, same basis lb. .22½ - —
Bromochloromethane, dms., c.l., frt. equald lb. .48 - —
l.c.l., same basis lb. .50 - —
Bromoform, pharmaceutical grade, bots lb. 1.62 - 2.60
cbys. lb. 1.52 - —
Bromstyrol, bots lb. 5.40 - 5.70
Bronze powder aluminum (see A).
Brown, iron oxide, pure bgs., c.l., works lb. .14¼ - —
l.c.l., works lb. .14½ - —
Oxide, metallic, bgs., works lb. .04 - —
Sienna, burnt., paper bgs., c.l., works lb. .06¼ - .17¼
l.c.l., works lb. .06½ - .17½
raw, paper bgs., c.l., works lb. .06¼ - .16¼
l.c.l., works lb. .06½ - .16½
Umber, burnt, American, c.l., works lb. .07 - .07¾
l.c.l., works lb. .07¼ - .08
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y. lb. .07¾ - —
raw, American, bgs., works lb. .07½ - .08¼
Turkey-type, bgs., works lb. .06¾ - .07
Vandyke, bbls., works lb. .09½ - .12
Brucine, cns., 100-oz. lots oz. .20 - .25
Sulfate, NF cns., 100-oz. lots oz. .15 - .20

Buchu leaves, bls lb. .85 - —
Butadiene, refd., cyls., c.l. refy lb. .21 - —
l.c.l. refy. lb. .22 - —
tanks, refy lb. 15 - —
Butane, indust., tanks, group 3 gal. 04½ - —
N. Y. harbor gal. 08 - —
n-Butyl acetate, ferment., dms., c.l., frt. alld lb. .16 - —
l.c.l., same basis lb. .17 - —
tanks, same basis lb. .13½ - —
syn., dms., c.l., dlvd. E lb. .16 - —
l.c.l., same basis lb. .17 - —
tanks, same basis lb. .13½ - —
sec-Butyl acetate, syn., dms., c.l., dlvd. E lb. .13 - —
l.c.l., same basis lb. .13¾ - —
tanks, same basis lb. .11¼ - —
Butyl alcohol (see Alcohol, n-Butyl).
Aldehyde (see Butyraldehyde).
Chloride, dms., c.l., works lb. .37½ - —
l.c.l., works lb. .38 - —
Ether, dms., c.l., works lb. .32¾ - —
l.c.l., works lb. .33¾ - —
tanks, works lb. .31 - —
Lactate, dms., c.l., frt. alld. E. of Rockies lb. .42½ - —
l.c.l., same basis lb. .43½ - —
tanks, same basis lb. .40 - —
Laurate, dms., works lb. .39 - —
Methacrylate dms., c.l., t.l., works. lb. .55 - —
l.c.l., works lb. .55½ - —
Oleate refd., dms., l.c.l., works lb .32 - —
Phenylacetate, dms. lb. 4.50 - 4.60
Phthalate (se Dibutyl phthalate).
Stearate dms., c.l., frt. equald. l.c.l., same basis lb. .26 - —



The demand for lumber treated with Chromate-salt formulations is increasing, due to the ability of these preservatives to provide a long, useful life for wooden structures. In addition to making lumber resistant to fire, fungi and termites, these effective chromate compounds give the wood, clean, odorless, paintable surfaces. Mutual does not make these formulations, but is a leading manufacturer of the Chromium Chemicals called for in government and industry specifications for water-borne preservatives.

SODIUM BICHROMATE · POTASSIUM BICHROMATE · SODIUM CHROMATE · CHROMIC ACID

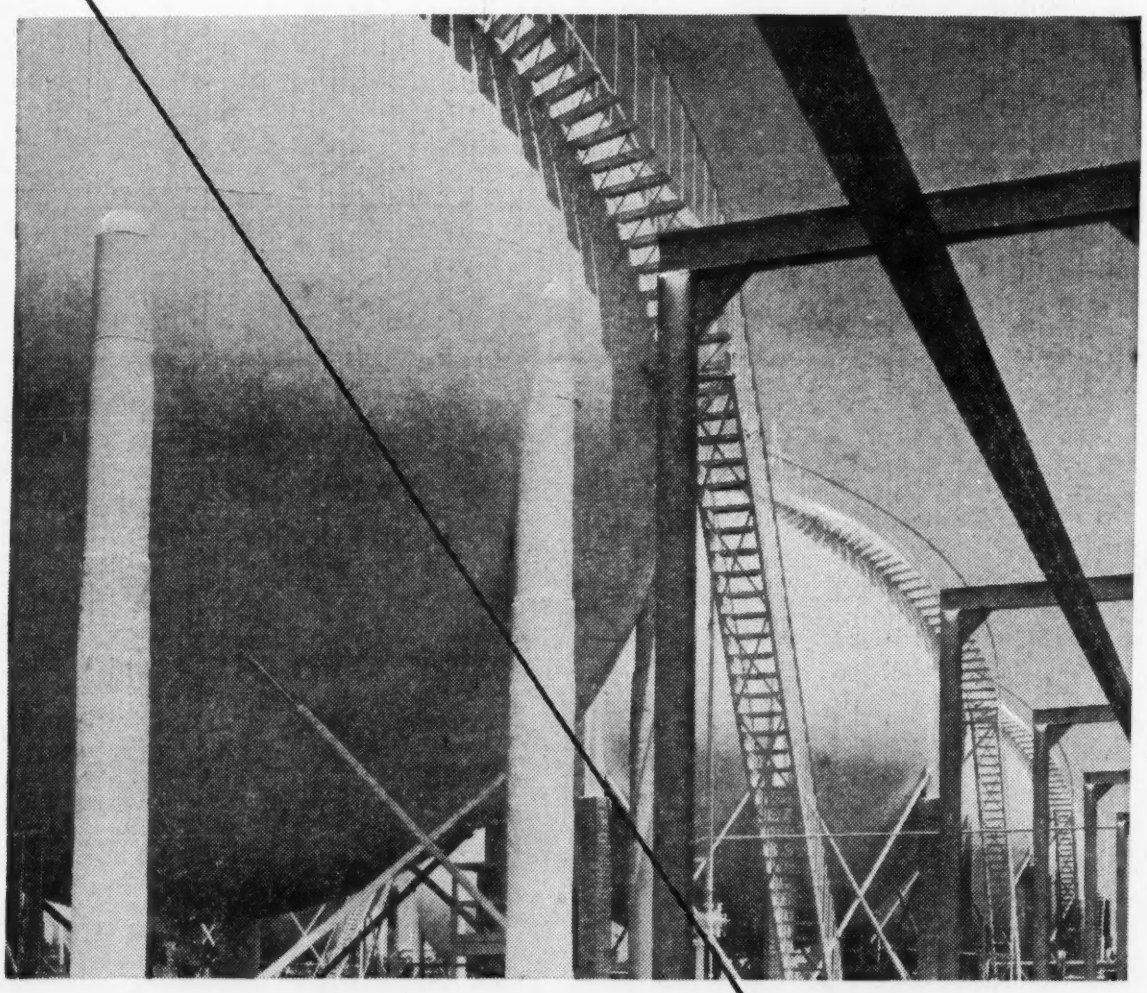
Butylamine—Cerium Hydrate

Butylamine (see mono-, di- and tri-).
Butylamine, lb. .25 - —
6-tert-Butyl-m-cresol, dms., c.l., works lb. .55 - —
l.c.l., works lb. .56 - —
tanks, works lb. .54 - —
Butylated hydroxytoluene (see 2,6-Di-tert-butyl-p-cresol).
p-tert-Butylphenol, bgs., c.l., works, lb. .26½- .27½
l.c.l lb. .27½- .28½
Butyraldehyde, dms., c.l., dlvd lb. .21½- —
l.c.l. dlvd lb. .22½- —
tanks, dlvd lb. .19½ —
Butyric ether (see Ethyl butyrate).

C

Cacao butter (see Cocoa butter).
Cadmium iodide, 25-lb. fib. dms lb. 6.75 - 7.00
Metal ingots or sticks, cs., dlvd. lb. 1.70 - —
Caffeine, USP, nat., cryst., anhyd., dms., 100-lb. lots or more lb. 3.00 - —
hydrous, dms., 100-lib. lots or more lb 2.80 - —
syn., cryst., anhyd., dms., 100-lb. lots or more lb. 3.00 - —
hydrous, 100-lb. lots or more lb. 2.80 - —
Citrated, USP, dms., 100-lb. lots or more lb. 2.70 - —
Calamine, USP, dms. lb .34 - —
Calcium chloride, liquor, 40%, tanks, frt. equald. ton.12.35 - —
25 to 100 gram lots, works, gram. .65 - —
in edible oil (see Viosterol).
Calcium p-aminosalicylate, fib., dms., 100 lbs. or more, frt .adjusted. lb. 4.00 - —
Arsenate, dealers, bgs., c.l., frt. alld lb. .09 - .09½
l.c.l., same basis lb. .10 - .10½
Bromide, NF, 100 lbs. or more lb. .92 - —
Carbide, standard generator size, dms., c.l., dlvd ton.134.40 - —
Carbonate, nat., dry-grd., air floated,, 325 mesh, bgs., c.l., works ton.10.50 - —
chalk, whiting, 325 mesh, bgs. works ton.32.00 -34.00
water-grd., ½ to 10 microns, bgs., c.l., works ton.30.00 - —
10 to 20 microns, bgs., c.l., works ton.17.00 -18.00
precip., dense, bgs., c.l., works ton.32.50 - —
l.c.l., works ton.42.50 - —
medium, bgs., c.l. works ton.38.00 - —
l.c.l., works ton.48.00 - —
surface treated, bgs., c.l., works ton.37.50 - —
l.c.l. works ton.47.50 - —
ultrafine, bgs., c.l., works. ton.110.00 -160.00
l.c.l., works ton.120.00 -175.00
Chloride, cryst., purif., dms lb. .27 - —
flake, 77-80%, paper bgs., c.l., works, frt. equald ton.29.00 - —
Calcium chloride, liquor, 40%, tanks, frt. equald. ton.12.35 - —
pellets, bgs., c.l., works ton.35.40 - —
powd., bgs., c.l., works ton.35.00 - —
solid, 73-75%, dms., c.l., frt. equald. ton.27.50 - —
l.c.l., works, frt. equald. ton.34.00 -71.00
USP, gran., dms. lb. .32 - —
Chromate, bgs., frt. equald lb. 29½- .30
Cyanide, dms., dlvd. E. of Rockies lb. .24 - .50
Cyclamate, 100-lb. fib. dms lb. 2.95 - —
Gluconate, AA, bbls., dms lb. .74 - .76
USP, bbls., dms lb. .67 - .69
Hydride, dms., works lb. 2.15 - 3.00
Hypochlorite, high test, 45-lb., cs., dlvd. E of Rockies cs.22.60 -24.75
100-lb. dms., same basis dm.28.65 -32.50
frt. equald. 100 lbs. 8.25 - —
l.c.l., frt. equald. 100 lbs. 9.00 - —
Hypophosphite, dms., ton lots or less lb. .90 - .93
Iodide, jars lb. 4.52 - —
Lactate, NF, dms., 10,000-lb. lots or more, works lb. .36 - .40
smaller lots, works lb. .41 - .48
Mandelate, USP, dms., works lb. 2.10 - 2.25
Naphthenate liq., 4% Ca., dms., frt. equald lb. .27¼- —
Nitrate, fertilizer grade, bgs., c.l., Los Angeles ton.46.00 - —
tech., 5 dm., works lb. .13 - —
Pantothenate, dms., bots., frt. adjusted gram. .045 - —
Para-aminosalicylate (see Calcium p-Aminosalicylate).
Phenolsulfonate, dms lb. .70 - —
Calcium phosphate, dibasic, USP, bgs., c.l., frt. equald. 100 lbs. 7.75 - —
l.c.l., frt. equald. 100 lbs. 8.50 - —
feed grade, 18½%P, bgs., c.l., t.l., frt. equald. ton.79.55 -83.25
l.c.l., frt. equald ton.89.55 -93.25
21% P, bgs., c.l., t.l., frt. equald. ton.94.50 - —
l.c.l., frt. equald. ton.99.50 -104.50
monobasic, bgs., 10,000-lb. lots, frt. equald. 100 lbs. 6.90 - —
smaller lots, same basis, 100 lbs. 7.40 - —
tribasic, NF, precip., bgs., c.l., lb. .50 - —
Phytate, bgs., works lb. .76 - —
Resinate, precip., dms., frt. alld., works lb. .30½- —
Silicate, hydrated, bgs., c.l., works, lb. .06 - —
l.c.l., works lb. .06½- —
paint grade (see Wollastonite).
Stearate, ctns., c.l. lb. .37 - —
l.c.l. lb. .38 - .42
Sulfate (see Gypsum).
Calomel, USP, powd., dms lb. 3.42 - —
Camphene 46° m.p., dms., incl., c.l., works lb. .15 - —
l.c.l., same basis lb. .16½- —
tanks, same basis lb. .12½- —
Chlorinated, 67-69% (see Toxaphene).
Camphor, monobromated, NF, dms., kgs lb. 3.55 - —
nat. USP, powd., cs., 100-lb. lots, lb. .60 - .65
tablets, 1-oz., ½-oz. cs lb. .85 - .90
syn., tech., 1 bbl. or more lb. .48 - —
USP, gran., powd., bbls., 2,000-lb. lots lb. .59 - —
1,000-lb. lots lb. .60 - —
smaller lots lb. .61 - —
tablets, tins, 2,000-lb. lots lb. .90 - —
1,000-lb. lots lb. .91 - —
smaller lots lb. .92 - —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs lb. 2.00 - 2.05
powd., bxs lb. 2.25 - 2.30
Russian, bgs lb. 4.00 - 4.05
powd., bxs lb. 4.35 - 4.40
Capsicum (see Pepper red).
Oleoresin, NF, from domestic pepper, dms lb. 4.50 - 5.25
from African pepper, dms lb. 4.35 - 5.00
Caraway seed, Dutch, bgs lb. .16½- .17
Carbazole, 97%, bbls., ton lots, works lb. 1.05 - —
Carbon black (see Black, Carbon).
Dioxide, indust., wholesale, bulk, dlvd. metropolitan area. ton.73.00 -115.00
cyls., same basis lb. .08 - .09
solid, same basis lb. .035 - .040
Disulfide, 55-gal. dms., c.l., works, frt. equald. to competitive points lb. .07 - —
l.c.l., same basis lb. .08½- .09
5-gal. dms., 30 dms. to c.l., same basis lb. .13 - —
less than 30 dms lb. .16 - —
tanks, dlvd. lb. .0545- —
Tetrachloride, CP, consumers, dms., c.l., l.c.l., frt. alld lb. .11½- .13¾
tech., consumers, dms., c.l., E. of Rockies, frt. alld lb. .10½- —
W. of Rockies, f.o.b. stockpoints lb. .11 - —
l.c.l., E. of Rockies, frt. alld lb. .12¾- —
W. of Rockies, f.o.b. stockpoints lb. .13¾- —
tanks, E. of Rockies, frt. alld. lb. .09½- —
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100-lb. lots, works lb. 4.00 - 4.25
smaller lots, works lb. 4.10 - 4.75
Cardamom seed, bleached, "A" lb. 3.20 - —
"B" lb. 3.10 - —
decorticated, Ceylon, cs lb. 1.95 - —
Guatemalan, cs. lb. 2.90 - —
green, Ceylon, bgs. lb. 2.10 - 2.15
Alleppey, bgs. lb. 2.15 - 2.20
Carmine, No. 40, NF, bulk, 100-lb. lots or more, dlvd lb.14.40 - —
smaller lots, dlvd lb.14.50 -15.20
Carotene, tech., 1,350,000 A units per gram, tins, 5-10 kilo lots, dlvd. gram. .295 - —
in carrot oil, 5,000,000 to 8,000,000 A units per lb., dms., works million units. .12 - —
microcrystalline in oil, 400,000 A units per gram, dms., dlvd. million units. .21 - —
b-Carotene, pure, crystalline, 1,600,000 A units to 1,670,000 per gram., cns gram. .35 - —
in vegetable oil, 400,000 A units per gram, cns. gram. .084 - —
Carvol, bots lb. 4.50 - 8.00
Cascara sagrada bark, bulk lb. .30 Nom.
Casein, dom., acid precip., standard, bgs., 10,000-lb. lots or more, shipt. point lb. .32 Nom.
premium, bgs., 10,000-lb. lots or more, shipt. point lb. .38 - —
imp., acid-precip., grd., Argentine, bgs., c.l., duty paid lb. .21 - .21¼
New Zealand, duty paid lb. .25 - .26
Cashewnut shell liquid, treated, dms., c.l., Newark, N. J. lb. .22 - —
ton lots, same basis lb. .23 - —
dm. lots, same basis lb. .25 - —
Cassia, Batavia, "A", bls lb. .19½- .20
"B" lb. .19 - .20
"C" lb. .17½- .18
Corinje "A" lb. .20 - —
"B" lb. .19½- —
"C" lb. .18¾- .19
Castor beans, bgs., f.o.b. Brazil ton.165.00 Nom.
Oil (see Oil, castor).
Pomace, bgs., c.l., works ton.35.00 -40.00
Castoreum, nat., cns lb. 5.00 -30.00
syn., cns lb. 9.00 - —
Catechol, CP, cryst., fib. dms., works lb. 2.17½- —
resub., dms., works lb. 4.29½- —
Catnip leaves, Southern, bls lb. .75 - —
Celery seed, French, bgs lb. .43 - .44
Indian, bgs. lb. .17 - .17½
Cellulose acetate, flake, powd., ctns., bgs., 100-lb. lots or more, dlvd E lb. .35 - .46
Acetate-butyrate, powd., 17% butyryl content, bgs., dlvd. E. lb. .545 - .555
27% butyryl content, bgs., dlvd. E lb. .595 - .605
38% butyryl content, bgs., dlvd. E lb. .545 - .555
50% butyryl content, bgs., dlvd E lb. .585 - .595
half-second, bgs., dlvd. E. lb. .545 - .555
Scrap (see Pyroxylin scrap).
Cerium chloride, dms., dlvd. lb. .35 - —
Hydrate 74% CeO_2, fib. dms., 100-lb. lots or more lb. 1.44 - —
77% CeO_2, fib. dms., 100-lb. lots or more lb. 1.74 - —

new perspective on petrochemicals



Products based on methane, ethane and propane have grown phenomenally during the past decade. Petro-Tex believes that butane-derived chemicals such as butadiene, n-butylene 1, and n-butylene 2 will experience comparable growth. Soon these four-carbon building blocks will be freely available at attractive prices.

While continuing as an important rubber-industry supplier, we are in a unique position to foster important new markets for butadiene and are presently expanding capacity to provide the needs of new users.

Discussions that may lead to mutually-beneficial long-term associations are welcome.

Petro-Tex

PETRO-TEX CHEMICAL CORPORATION

HOUSTON 1, TEXAS

A JOINT ENTERPRISE OF

FOOD MACHINERY AND CHEMICAL CORPORATION AND TENNESSEE GAS TRANSMISSION COMPANY

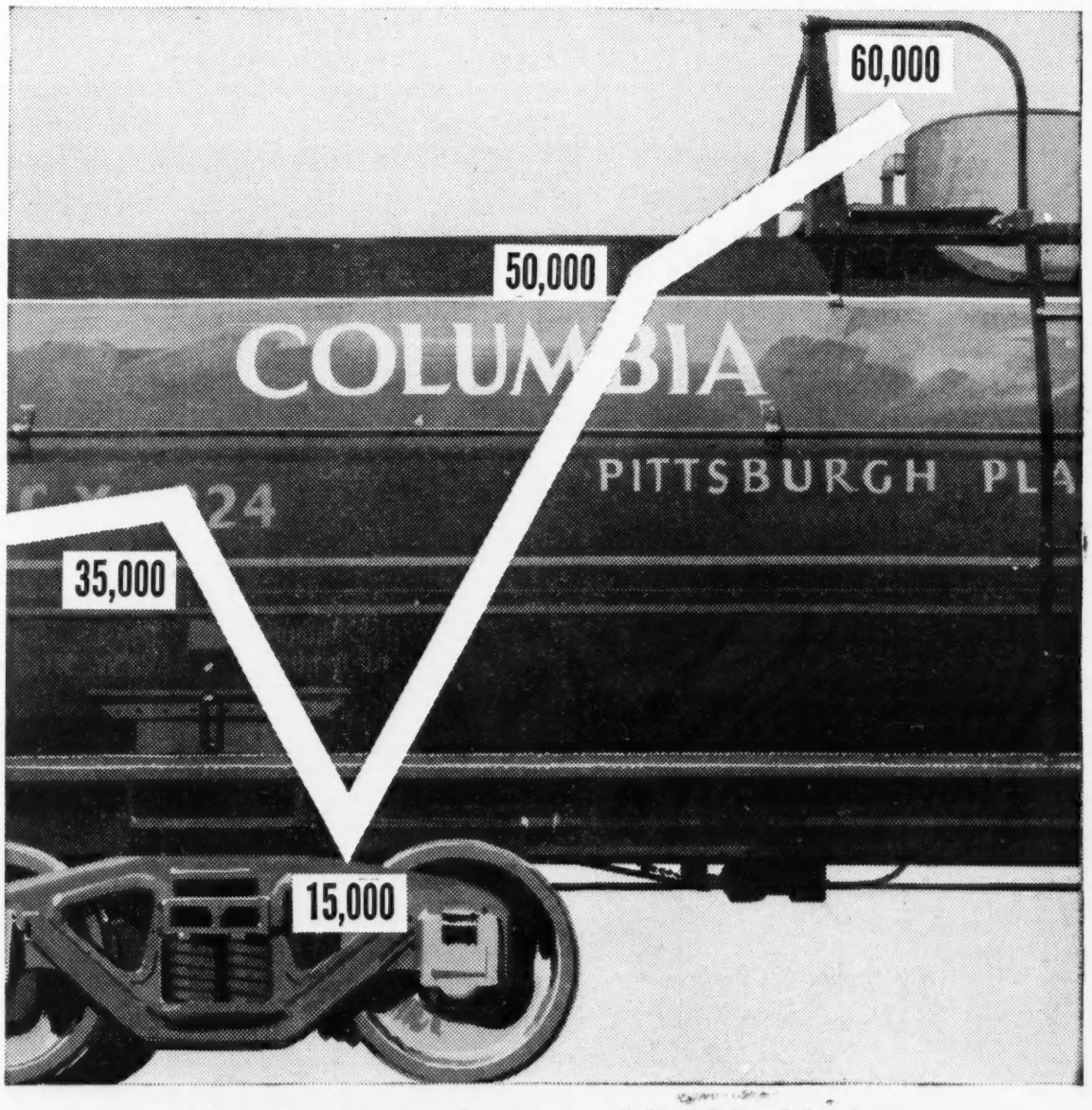
Cerium oxalate, NF, bgs., works lb. 1.00 - —
Oxide, optical grade, bgs., 50-lb. lots or more, dlvd lb. 1.85 - 1.98
smaller lots, dlvd lb. 2.03 - 2.23
Chalk (see Calcium carbonate).
Chamomile flowers, Hungarian style, cs lb. .78 - —
Roman, cs lb. 1.50 - —
Charcoal, activated, NF, fib. dms., c.l., works lb. .25 - .32
5-ton lots, works lb. .20½ - .32½
smaller lots works lb. .27 - .50
Bone (see Black, bone).
Hardwood, bulk, lump, c.l., f.o.b. plant ton.55.00 - —
briquets, bulk, c.l., f.o.b. plant. ton.75.00 -80.00
40-lb. paper bgs., c.l., same basis ton.81.00 -85.00
Pinewood, gran., bgs., c.l., works, South ton.57.00 - —
l.c.l., works, South ton.57.00 -67.00
lump, bgs., c.l., works, South. ton.53.50 - —
l.c.l., works, South ton.56.50 -71.00
bulk, c.l., works, South ton.38.00 - —
t.l., works, South ton.41.00 - —
Chestnut extract, Italian, solid, 60% tannin, bgs., exdock, plus duty lb. .09½- —
powd., 70% tannin, bgs., exdock, plus duty lb. .10⅝- —
Chloral, tech., 94% min., dms., c.l., works lb. .23 - —
tanks, multiple units, 5 cars, works lb. .21 - —
Hydrate, USP, 40-lb. jars, 1,000-lb. lots lb. 1.00 - —
l.c.l., works lb. .24 - —
500-lb lots lb. 1.03 - —
100-lb. lots or less lb. 1.05 - —
Chloramine T, NF, bbls., works lb. .75 - 1.00
Chlordan, agricultural, dms. c.l., frt alld lb. .65 - —
l.c.l. 5,000 to 10,000-lb. lots, frt alld lb. .66 - —
clarif., dms., c.l., frt. alld lb. .69 - —
l.c.l. 5,000 to 10,000-lb. lots, frt. alld lb. .70 - —
Chlorinated paraffin, 42%, dms., c.l., frt. alld lb. .16¼- —
l.c.l., same basis lb. .17¼- —
70%, dms., c.l., same basis lb. .18¾- —
l.c.l., same basis lb. .19¾- —
Rubber, 5, 10, 20 cps., ctns., c.l., works lb. .55 - —
l.c.l., works lb. .56 - —
125, 1,000 cps. ctns., c.l., works lb. .65 - —
l.c.l. works lb. .66 - —
Chlorine, liq. cyls. c.l., works, frt. equald lb. .10¼- —
l.c.l. Metropolitan area lb. .11½- .13
tanks, single units, works, frt. equald 100 lbs. 3.05 - —
multiple units, 5 cars, works, frt. equald 100 lbs. 3.92 - —
3 cars, same basis 100 lbs. 4.12 - —
2 cars, same basis 100 lbs. 5.12 - —
1 car, same basis 100 lbs. 7.12 - —
4-Chloro-2-aminotoluene, fused, bbls. lb. 1.45 - —
m-Chloroaniline, dms., min. 10,000 lbs. or over, frt. alld lb. .75 - —
less than 10,000 lbs., same basis. lb. .80 - —
tanks, same basis lb. .73 - —
o-Chloroaniline, dms., c.l., frt. alld. lb. .65 - —
l.c.l., same basis lb. .67 - —
tanks, same basis lb. .63 - —
p-Chloroaniline, dms., c.l., frt. alld. lb. .75 - .77
l.c.l., same basis lb. .77 - .79
o-Chlorobenzaldehyde, dms., t.l., works lb. 1.05 - —
l.t.l., works lb. 1.20 - —
p-Chlorobenzaldehyde, dms., c.l., works lb. 1.95 - —
Chloroform, tech., dms., c.l., dlvd. E lb. .18 - —
l.c.l., same basis lb. .19 - —
tanks, same basis lb. .17 - —
USP, dms lb. .30 - —
2-Chloro-4-nitroaniline, paste, dlvd. E., 100% basis lb. .81 - —
powd., dlvd. E., 100% basis lb. .86 - —
4-Chloro-2-nitroaniline, powd., dlvd. E lb. .80 - —
o-Chlorophenol, dms., c.l., frt. equald. lb. .35½- .37
l.c.l., same basis lb. .36½- .38
p-Chlorophenol, dms., c.l., frt. equald lb. .35½- .37
l.c.l., same basis lb. .36½- .38
Chlorophyll, oil-soluble, not fixed, 4%, pails, tins, works lb. 4.25 - —
copper fixed, 6½%, tins, pails, works lb. 4.23 - —
dms., pails, works lb. 3.75 - —
8%, pails, dms., works lb. 4.00 - 4.80
14%, dms., works lb. 8.90 - —
conc., dom., 50%, dms., works, 100% basis lb.42.00 - —
75% dms., works, 100% basis lb.45.00 - —
90%-100%, dms., works, 100% basis lb.45.00 - —
imp., 60%, tins, 100% basis. lb.58.00 - —
75% tins, 100% basis lb.58.00 - —
90% tins, 100% basis lb.58.00 - —
Chloropicrin, coml., bots lb. 1.50 - —
cyls., 180 lbs., frt. alld lb. .95 - —
100 lbs., same basis lb. .97 - —
25 lbs., same basis lb. 1.22 - —
Choline bitartrate, fib. dms., frt. adjusted lb. 1.25 - 1.35
Chloride, fib. dms., frt. adjusted. lb. 1.25 - 1.35
Dihydrogen citrate, fib. dms., frt. adjusted lb. 1.25 - 1.35
Chromium acetate, soln., 7½%, bbls., works lb. .09½- —
cbys. works lb. .11¼- —
Fluoride, bbls., works lb. .51 - .52
Green (see Green, chrome).
Oxide (see Green chromium oxide).
Trioxide, NF, bots lb. .82 - .89
Yellow (see Yellow chrome).
Cinchona bark, NF, red, broken, bgs lb. .35 - .40
yellow, broken, bgs lb. .35 - .40
Cinchonidine, cryst. cns., 100-oz. lots. oz. .65 - —
Sulfate, cns., 100-oz. lots oz. .35 - —
Cinchonine, cryst., cns., 100-oz. lots. oz. .52 - .57
Sulfate, NF, cns., 100-oz. lots oz. .27½- .30½
Cinchophen, NF, heavy density, dms., frt. adjusted lb. 3.70 - 4.05
standard density, dms., same basis lb. 3.50 - 3.85
Cinchophen-sodium, dms., frt. adjusted lb. 4.50 - 4.85
Cinnamic alcohol (see Alcohol cinnamic).
Aldehyde, cns., dms. lb. 1.00 - 1.30
Cinnamon, Ceylon, No. 2, bgs. lb. .95 - —
"000", bgs., afloat lb. 1.06 - —
Citral, bots., cns lb. 5.45 - 5.90
Citronellal, bots., dms lb. 3.10 - —
Citronellol, bots., dms. lb. 4.85 - 5.15
Civet, artif, bots lb.13.75 -15.00
nat., bots oz. 7.50 -15.00

Clay, ball, dom., airfloated, bgs., c.l., Tenn ton.19.50 - —
crushed, shed moisture, bulk, c.l., Tenn ton.10.00 - —
purif., bgs., c.l., Tenn ton.20.50 - —
imp., airfloated, bgs., c.l., Atl. port long-ton.42.00 -45.00
lump, bulk, Atl. port, long-ton.27.00 -30.20
China, dom., dry-grd., airfloat, 99% 325 mesh, bgs., c.l., Georgia, works ton.10.00 - —
l.c.l., Georgia, works ton.15.50 - —
300 mesh, bgs., c.l., Georgia, works ton.13.50 -14.50
l.c.l. ton.35.00 - 36.00
imp., white, lump, bulk, c.l., exdock, Phila., Portland, Me. gross ton.20.00 -35.00
powd., bgs., c.l., ex dock net ton.50.00 - —
l.c.l., ex whse net ton.60.00 -65.00
Clove, Madagascar, bgs lb. .39 - —
Zanzibar, bgs. lb. .48 - —
CMC, crude, 96%, low or medium vis., bgs., or fib. dms., 23,000 lbs., dlvd. E., 100% basis lb. .39½- .41
less than 23,000 lbs., dlvd. E., 100% basis lb. .41½- .43
65%, low or medium vis., bgs., or fib. dms., c.l., dlvd. E., 100% basis lb. .39½- .41
l.c.l. dlvd E. 100% basis. lb. .41½- .43
purif., high vis. (see Gum Cellulose).
standard, low or medium vis., bgs., 23,000 lbs. or over, works, frt. alld lb. .55 - —
smaller lots, same basis lb. .57 - —

CMC prices W. of the Rockies are 2c. per lb lower and are on a works basis.

Coaltar, crude, resale for solns., dms., c.l., ex-whse gal. .255 - —
l.c.l., ex-whse gal. .275 - —
tanks, ex works gal. .155 - .159
refd., resale, dms., c.l., ex-whse. gal. .2650- .32
l.c.l., ex-whse gal. .2850- .34
tanks, ex-whse gal. .1650- .1760
Cobalt acetate, 23.7%, dms., dlvd. lb. 1.20 - —
Carbonate, 46% powd., bgs., dlvd. lb. 1.85 - —
Chloride, 24.2% Co., dms., dlvd. lb. 1.20 - —
Hydrate, 60-61% Co., dms., dlvd lb. 2.62 - —
Linoleate, fused, 8½% Co., dms. lb. .75¾- —
liq., 6% Co., dms lb. .61 - —
Metal, 97-99%, kgs., ex whse lb. 2.60 - —
Naphthanate, liq., 6% Co., dms., dlvd lb. .48¼- —
Nitrate, 20.1% Co., bbls., dlvd lb. 1.00 - —
Oxide, black, 72½-73½% Co., kgs lb. 1.96 - —
70-71% Co., kgs lb. 1.90 - —
Phosphate, powd., 32.1% Co., kgs., dlvd lb. 1.69 - —
Resinate, fused, 3% Co., dms. lb. .29¾- —
dlvd lb. .79 - —
Sulfate cryst., 21% Co., dms., monohydrated, 33% Co., dms., dlvd lb. 1.32 - —
Tallate, 6% Co., dms., dlvd lb. .43¾- —
Cocaine, USP, cns., 100-oz. lots oz.17.80 - —
Hydrochloride, cns., 100-oz. lots. oz.13.75 - —

Cocoa butter, bgs lb. .47½- —
Codeine, NF, cns., 100-oz. lots oz.13.25 - —
Hydrochloride, cns., 100-oz. lots.oz.11.75 - —
Phosphate, USP, cns., 100-oz. lots. oz.10.25 - —
Sulfate, USP, cns., 100-oz. lots oz.10.75 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls lb. .20 - .22
blue, bls lb. .20 - .22
Colchicine, USP, bots., cns. oz.33.50 -40.00
Colchicum root, bls lb. .45 - .55
seed, bgs lb. .75 - 1.00
Collodion, USP, dms lb. .32½- —
flexible, dms lb. .34 - —
Colocynth, pulp, bls lb. .25 - .30
Colombo root, bls lb. .15 - .16
Condurango bark, bales lb. .40 - .50
Copaiba balsam, cns. dms lb. .90 - 1.20
Copper acetate, bbls., c.l., works lb. .53 - —
l.c.l., works lb. .54 - —
Carbonate, 55%, bgs., c.l., works. lb. .4075- —
l.c.l., works lb. .4225- —
Chloride, anhyd., bbls., works lb. .50¾- .51¼
cryst., bbls., works lb. .34¾- .35¼
Cyanide, tech., bbls. 20,000-lb. lots or more lb. .77½- —
1,000-lb. lots or more lb. .78½- —
smaller lots lb. .80½- —
Gluconate, dms lb. 3.15 - 3.35
Hydrate, dms., c.l., frt. alld. E. of Miss lb. .57 - —
l.c.l., same basis lb. .57½- —



How many tank cars of liquid chlorine would you say were produced last year?

Total production of liquid chlorine by America's chemical industry in 1955 was an estimated 3,407,935 tons.

This represents an increase of 38% since 1950 and an increase of 65% since 1945.

Based on 55 ton capacity cars, last year's chlorine production was enough to fill a string of 61,962 tank cars.

Chlorine continues to grow. This year, Columbia-Southern remains the leading merchant producer of chlorine.

Columbia-Southern's sales, traffic, and technical departments are always ready and pleased to assist you with your chlorine problems.

COLUMBIA-SOUTHERN CHEMICAL CORPORATION
SUBSIDIARY OF PITTSBURGH PLATE GLASS COMPANY
ONE GATEWAY CENTER · PITTSBURGH 22 · PENNSYLVANIA

DISTRICT OFFICES: Cincinnati • Charlotte • Chicago Cleveland • Boston • New York • St. Louis • Minneapolis New Orleans • Dallas • Houston • Pittsburgh • Philadelphia • San Francisco

IN CANADA: Standard Chemical Limited and its Commercial Chemicals Division

Copper Metal—Dicylcohexyl Phthalate

Copper metal, electrolytic, dlvd., Valley basis lb. .46 - —
Naphthenate, liq. 8% Cu, dms., frt. alld lb. .24½- —
Nitrate tech., cryst., bbls., works. lb. 33¼- —
Oleate, solid, 9% Cu, dms., works lb. 45 - —
Oxide, black, bbls., 100-2,000-lb. lots, works lb. .58 - —
red, 97%, USN Type I, bbls., 100-5,000 lb. lots lb. .69½- —
90% USN Type II, bbls., 100-5,000 lots or more, works. lb. .67½- —
Oxychloride, dms., c.l., works lb. .55 - —
l.c.l., works lb. .55½- .65½
Quinolinolate, fib. dms lb. 4.25 4.50
Resinate precip. dms., frt. alld lb. .31½ —
Sulfate, CP, gran., bbls., works lb. .2360- —
cryst. 99% bgs. c.l. works 100 lbs. 16.70 - —
l.c.l., same basis 100 lbs. 17.20 -19.70
Monohydrated, 35%, c.l., works. 100 lbs. 27.00 - —
l.c.l., works 100 lbs. 27.75 - —
tribasic, dealers' bgs. works, frt. equald 100 lbs. 35.85 - —
l.c.l., same basis 100 lbs. 37.35 - —
Undecylenate, dms lb 2.00 3.00
Copra, Atlantic, Gulf ports, c.i.f. ton. 147.50 - —
Pacific ports, c.i.f. ton. 152.50 - —
Coriander seed, Moroccan, bgs lb. .10 - —
Roumanian, bgs. lb. .08 - —
Yugoslavian, bgs. lb. .08 - —

Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs. 7.16 - —
l.c.l. 100 lbs. 7.31 - —
Syrup, 42°, non-ret., dms., c.l. 100 lbs. 7.14 - —
l.c.l. 100 lbs. 7.29 - —
Corrosive sublimate (see Mercuric chloride).
Cortisone acetate, NNR, bulk gram 3.50 3.55
Cottonseed meal, expeller, 41%, bgs., Memphis ton. 55.00 - —
solvent, same basis ton. 54.00 - —
Cramp bark, NF, bls lb .85 .9
Coumarin, NF, cryst., dms lb. 3.60 - 3.70
Cream of tartar (see Potassium bitartrate).

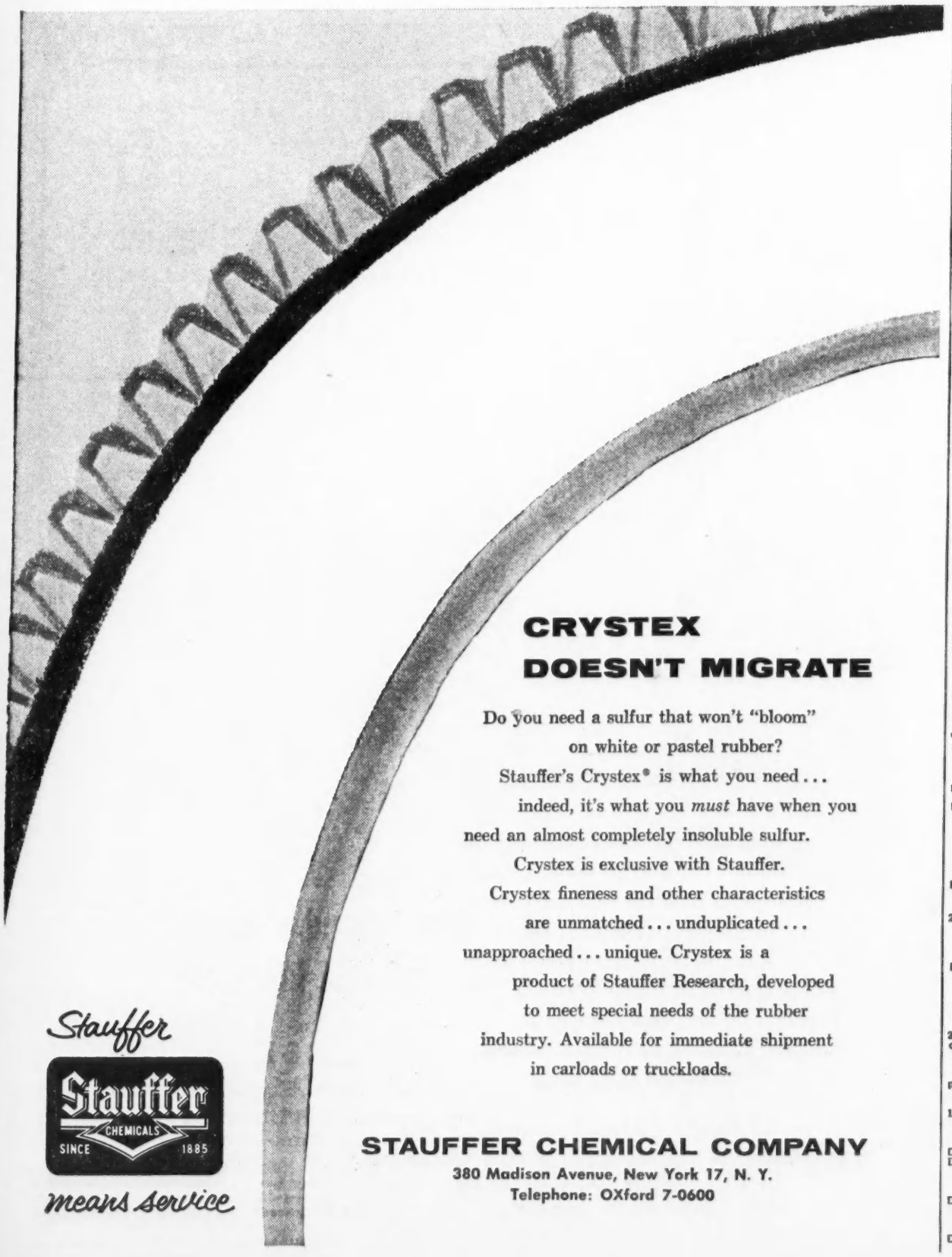
Creosote carbonate, NF, bots, cbys. lb. 3.05 - 3.26
Coaltar, crude, tanks, works, frt. adjusted gal. .22 —
soln. 80% tanks, works gal. .2068- —
refd., dms., c.l., works gal. .42 - .44
l.c.l., same basis gal. .53 - .55
tanks, same basis gal. .33 - .35
Wood, beechwood, cbys., dms lb. 1.60 - 1.65
hardwood, NF, bots., cbys lb 1.30 1.35
pinewood, dms., c.l., incl. lb. .0561 - —
l.c.l., incl lb. .0634- —
N. Y. whse lb. .0745- —
tanks, works lb. .0460- —
Cresol, tech., 50% below 204°C., dry above 207°C., wide distillation range, non-ret. dms., c.l., frt. equald lb. .1625- —
l.c.l., same basis lb. .1675- —
tanks, same basis lb. .145 - —

Cresol, USP, non-ret. dms., c.l., same basis lb. .1775- —
l.c.l., same basis lb. .1825- —
tanks, same basis lb. .160 - —
m-Cresol, 95-98%, dms., c.l., works. lb. .60 - —
l.c.l., works lb. .61 - —
m-p-Cresol, 5-95%, 3°C., dms., c.l., frt. equald lb. .1775- —
l.c.l., same basis lb. .1825- —
tanks, same basis lb. .160 - —
2-97%, 2°C., dms., c.l., frt. equald. lb. .2175- —
l.c.l., same basis lb. .2225- —
tanks, same basis lb. .200 - —
o-Cresol, m.p. over 30°C., ret. dms., c.l., frt. equald lb. .17¾- —
l.c.l., same basis lb. .18¼- —
tanks, same basis lb. .16 - —
o-Cresol, 29°C., ret. dms., c.l., frt. equald lb. .16 - —
l.c.l., same basis lb. .16½- —
tanks, same basis lb. .15 - —
25-29°C., dms., c.l., frt. equald. lb. .15¾- —
l.c.l., same basis lb. .16¼- —
tanks, same basis lb. .14 - —
p-Cresol, 98%, dms., c.l., dlvd. lb. .50 - —
l.c.l., dlvd lb. .51 - —
tanks, dlvd lb. .49 - —
Methyl ether, cns lb. 1.90 - 2.50
Crotonaldehyde, 91-93%, dms., l.c.l., works lb. .24¼- .25
Cryolite, nat., indust., bgs., c.l., works 100 lbs. 13.00 - —
l.c.l., works 100 lbs. 14.25 - —
Insecticide, dealers, bgs., c.l., dlvd 100 lbs. 16.75 - —
l.c.l., dlvd 100 lbs. 17.75 - —
Cube root, powd., 5% rotenone, bgs., c.l., t.l., works lb. .27 - .30
l.c.l., works lb. .28 - .31½
Cubeb berries, XX, NF, bgs. lb. .60 - .65
powd., cs. lb. .75 - .80

Cumene, dms., c.l., works lb. .12 - —
l.c.l., works lb. .14 - —
tanks, works lb. .11 - —
Cumin seed, Iranian, bgs. lb. .15 - —
Turkish, bgs. lb. .14½- .15
Cutch extract, 55% tannin, bgs., ex dock, duty extra lb. 08½ —
Cyanamide, fertilizer mixing grades, 21% N, gran., bgs., Niagara Falls, Ont., contract ton. 55.00 - —
pulv., 21% N, bgs., works, unit-ton 2.75 - —
Indust. grade, bgs., c.l., works ton. 75.00 - —
l.c.l., bgs., works ton. 96.00 - —
6-16 mesh, dms., c.l., works ton. 120.00 - —
l.c.l., works ton. 140.00 - —
Cyclohexane, 99% tech., dms., c.l., works gal. .70 - —
l.c.l., works gal. .72 - —
tanks, works gal. .55 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld., E lb. .28½- .37¾
l.c.l., works, same basis lb. .30 - .38¼
tanks, works, same basis lb. .27 - .36¼
Cyclohexanone, tech., dms., c.l., works lb. .32½- —
l.c.l., works lb. .35 - —
tanks, works lb. .29 - —
Cyclohexene, min. 98%, b.r. 82.5°C-85°C, 360-lb. dms., c.l., works lb. .55 - —
l.c.l., same basis lb. .60 - —
tanks, same basis lb. .52 - —
Cyclohexylamine, dms., c.l., works, lb. .46½- —
l.c.l., works lb. .48½- —
tanks, works lb. .45 - —
Cyclopropane, CP, 2-lb. cyls., works. cyl. 48.00 - —
6 oz. cyls., works cyl. 12.00 - —
USP, hospitals, cyls., 40-gal. lots, gal. .38 - —
100-gal. lots gal. .37 - —
200-gal. lots gal. .36 - —

D

2-4-D, tech., dms., c.l., works, frt. equald lb. .37 - —
l.c.l., same basis lb. .42 - .46
Butyl ester, dms., c.l., works. lb. .40 - —
l.c.l., same basis lb. .45 - .49
tanks, same basis lb. .39 - —
Isopropyl ester, dms., c.l., works. lb. .40 - —
l.c.l., works lb. .45 - .49
tanks, works lb. .39 - —
Dandelion root, bls lb. .35 - .40
DDD, tech., flake, grd., fib., dms., c.l., works lb. .45 - —
l.c.l., works lb. .46 - —
DDT, powder, bgs., c.l., works, frt. equald lb. .23 - .27
smaller lots, same basis lb. .24 - .28
fib. dms., c.l., same basis lb. .24 - .28
smaller lots, same basis lb. .25 - .29
1-Decanol, tech., dms., c.l., dlvd. lb. .41 - —
l.c.l., dlvd. lb. .43 - —
tanks, dlvd. lb. .38½- —
Deertongue leaves, bls lb. .45 - —
Defluorinated phosphate, feed grade, 13% P, paper bgs., c.l., t.l., works ton. 49.50 - —
14½% P, paper bgs., c.l., t.l., works ton. 50.00 - —
17% P, paper bgs., c.l., t.l., works ton. 58.00 - —
18% P, paper bgs., c.l., t.l., works ton. 64.10 - —
Prices of defluorinated phosphate in bulk $3 per ton less than bag carlot prices.
Degras, neutral, bbls lb. .10 - .18
d-Desoxyephedrine hydrochloride, bots lb. 24.00 -25.00
dl, bots lb. 6.50 - —
Dextrin, corn, gum, paper bgs., c.l. 100 lbs. 9.18 - —
l.c.l. 100 lbs. 9.33 - —
canary, light paper bgs., c.l., 100 lbs. 8.92 - —
l.c.l. 100 lbs. 9.07 - —
dark, paper bgs., c.l. 100 lbs. 9.02 - —
white paper bgs., c.l. 100 lbs. 8.76 - —
l.c.l. 100 lbs. 8.91 - —
Corn dextrin in cotton bgs. 15c. per 100 lbs. higher.
Potato, imported, bgs lb. .10½- .11
Dextrose, USP, dms lb. .17¾- —
Diacetone (see Alcohol diacetone).
Diacetyl, flavor grade, bots lb. 4.50 - 5.50
Di-sec-amyl phenol, dms., c.l., works lb. .30¾- —
l.c.l., works lb. .32¼- —
tanks, works lb. .28¾- —
Di-tert-amyl phenol, dms., c.l., works lb. .30¾- —
l.c.l., works lb. .32¼- —
tanks, works lb. .28¾- —
o-Dianisidine, fib. dms lb. 2.00 - —
Dibenzyl sebacate, dms., c.l., works. lb. .89¾- .90
l.c.l., same basis lb. .90¼- .91
tanks, same basis lb. .88 - —
p-Dibromobenzene, bgs., 500-lb. lots. lb. .55 - —
Dibutyl phthalate, dms., c.l., dlvd. E lb. .32 - —
l.c.l., same basis lb. .33 - —
tanks, same basis lb. .30 - —
Sebacate, dms., c.l., works lb. .66 - —
l.c.l., works lb. .66½- .67
tanks, works, dlvd lb. .64 - .64¼
Tartrate, dms., works, frt. alld. lb. .64 - —
Dibutylamine, dms., c.l., dlvd. lb. .55 - —
l.c.l., same basis lb. .56 - —
tanks, same basis lb. .53 - —
2,6-Di-tert-butyl-p-cresol, food grade, dms., t.l., c.l., dlvd. lb. 1.11 - —
l.t.l., dlvd lb. 1.15 - —
Tech., dms., c.l. lb. .91 - —
l.c.l. lb. .95 - —
Dicapryl phthalate, dms., c.l., dlvd., lb. .30½- .31¼
l.c.l., dlvd lb. .31½- .32¼
tanks, dlvd lb. .29½- —
Sebacate, dms., c.l., works lb. .63 - —
l.c.l., works lb. .63½- .64
tanks, works lb. .61 - —
2,5-Dichloroaniline, dms., works lb. .83 - —
o-Dichlorobenzene, dms., c.l., frt. alld. E lb. .12¼- —
l.c.l., same basis lb. .13¼- —
tanks, same basis lb. .10¾- —
p-Dichlorobenzene, dms., c.l., frt. alld. E lb. .14½- —
l.c.l., same basis lb. .17 - —
1,4-Dichlorobutane, dms., c.l. or t.l., works lb. .33½- —
l.c.l., or l.t.l., works lb. .34 - —
tanks, works lb. .32 - —
Dichlorodiphenyltrichloroethane (see DDT).
Dichloropentanes, dist., dms., c.l., works lb. .05 - —
l.c.l., works lb. .06 - —
tanks, works lb. .03 - —
Dicyclohexylamine, dms., c.l., works. lb. .51 - —
l.c.l., works lb. .51¾- —
tanks, works lb. 49½- —
Dicyclohexyl phthalate, fib. dms., c.l., works, frt. alld lb. .58¼- .59
l.c.l., same basis lb. .59¼- .60



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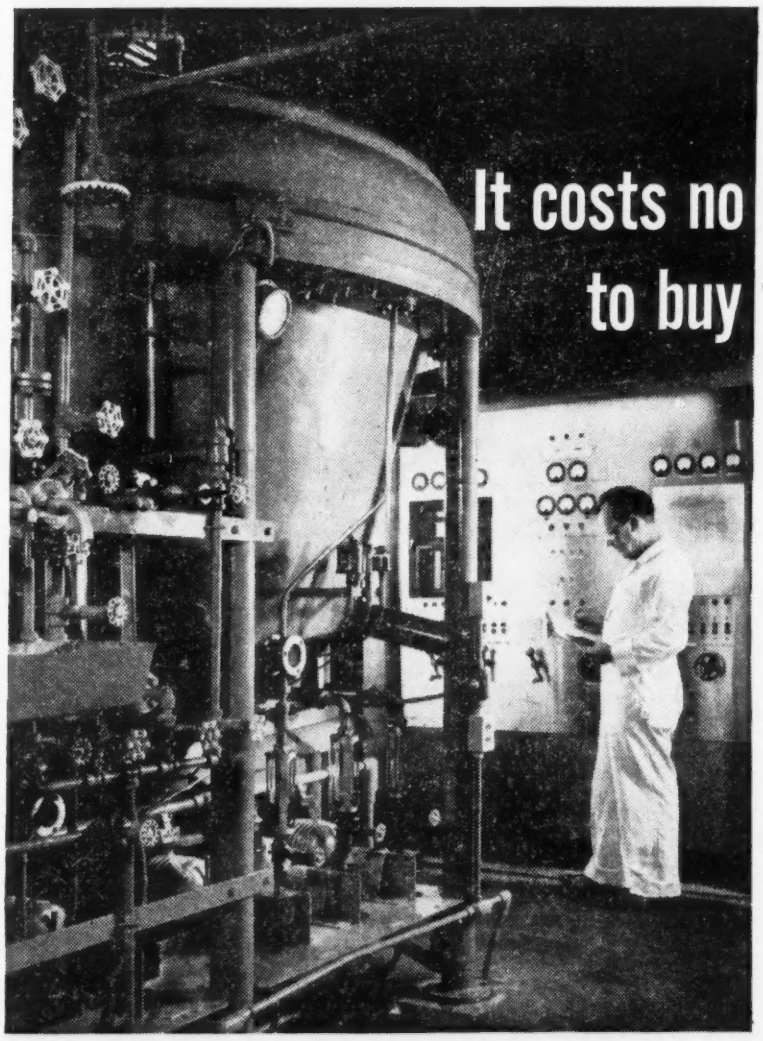
Didecyl phthalate, dms., c.l., works.	lb.	.33½-	—
l.c.l., same basis	lb.	.34½-	—
tanks, same basis	lb.	.31½-	—
Dieldrin, dms., frt. alld	lb.	1.80 -	—
l.c.l., frt. alld	lb.	1.85 -	—
Diethanolamine, dms., c.l., dlvd. E.	lb.	.26½-	—
l.c.l., same basis	lb.	.27½-	—
tanks, same basis	lb.	.24½-	—
Diethyl carbonate, dms., c.l., frt. alld	lb.	.47 -	—
l.c.l., same basis	lb.	.48 -	—
tanks, same basis	lb.	.45 -	—
Ethanolamines, dms., c.l., dlvd.	lb.	.69 -	—
l.c.l., dlvd	lb.	.70 -	—
tanks, dlvd	lb	.67 -	—
Oxalate, dms., c.l., frt. alld	lb.	.42 -	—
l.c.l. same basis	lb.	.43 -	.45
tanks same basis	lb.	.40 -	—
Phthalate, dms., c.l., dlvd.	lb.	.29 -	—
l.c.l., dlvd	lb.	.30 -	—
tanks, dlvd	lb.	.27 -	—
Sulfate, dms., c.l., works	lb.	.18¾-	—
l.c.l., works	lb.	.19¼-	—
tanks, works	lb.	.17 -	—
Diethylamine, dms., c.l., dlvd. E	lb.	.50½-	—
l.c.l., same basis	lb.	.51½-	—
tanks, same basis	lb.	.48½-	—
N,N-Diethylaniline, dms., c.l., frt. alld	lb.	.51 -	—
l.c.l., same basis	lb.	.52 -	—
tanks, same basis	lb.	.50 -	—
Di-2-ethylhexyl adipate (see Dioctyl adipate).			
Diethylene glycol, dms., c.l., dlvd. E.	lb.	.17¼-	—
l.c.l., same basis	lb.	.18¼-	—
tanks, same basis	lb.	.15¼-	—
Boriborate, dms., l.c.l.	lb.	.31 -	—
Diethyl ether, dms., c.l., works.	lb.	.47½-	—
l.c.l., works	lb.	.48 -	—
Monobutyl ether, dms., c.l., dlvd. E	lb.	.30¼-	—
l.c.l., dlvd. E	lb.	.31¼-	—
tanks, dlvd. E	lb.	.28¼-	—
acetate, dms., c.l., works	lb.	.30 -	—
l.c.l. works	lb.	.30½-	—
tanks, dlvd. E	lb.	.28¼-	—
Monoethyl ether, dms., c.l., dlvd.	lb.	.22 -	—
l.c.l., dlvd	lb.	.23 -	—
tanks, dlvd	lb.	.20 -	—
acetate, dms., c.l., works	lb.	.26¾-	—
l.c.l., works	lb.	.27¼-	—
tanks, dlvd. E	lb.	.25¼-	—
Monomethyl ether, dms., c.l., dlvd.	lb.	.20½-	—
l.c.l., dlvd	lb.	.21½-	—
tanks, dlvd	lb.	.18½-	—
Diethylenetriamine, dms., c.l., dlvd. E	lb.	.43½-	—
l.c.l., dlvd. E	lb.	.44½-	—
tanks, dlvd. E	lb.	.41½-	—
Diethylstilbestrol, USP, bots., 10-kilo lots	kilo.	100.00	-147.50
1 kilo lot	kilo.	110.00	-152.50
Digitalis leaves, USP, dom., dms.,	lb.	1.10 -	1.25
Digitoxin, USP, bots	gram.	5.00 -	5.50
Diglycol laurate, dms	lb.	.35 -	.38
Stearate dms., ton lots	lb.	.25 -	—
Dihexyl sebacate, dms., c.l., works.	lb.	.64 -	—
l.c.l., works	lb.	.64½-	.65
tanks, works	lb.	.62 -	—
Dihydrazine sulfate, dms., works.	lb.	1.10 -	1.25
Dihydrostreptomycin hydrochloride, bulk	gram.	.07 -	.0745
Sulfate, bulk	gram.	.07 -	.0745
1,2-Dihydroxy anthraquinone, dms., works	lb.	2.75 -	—
2,2-Dihydroxy-5-5-dichloro-diphenyl-methane, pure, dms.	lb.	2.55 -	—
tech., dms	lb.	1.09 -	—
Di-isobutyl ketone, dms., c.l., dlvd.	lb.	.16 -	—
l.c.l., dlvd	lb.	.17 -	—
tanks, dlvd	lb.	.14 -	—
Phthalate, dms., c.l., dlvd. E	lb.	.31 -	—
l.c.l., same basis	lb.	.32 -	—
tanks, same basis	lb.	.29 -	—
Di-isobutylene dms., c.l., dlvd. E	lb.	.10 -	—
l.c.l., dlvd. E	lb.	.11 -	—
tanks, dlvd E	lb.	.08 -	—
Di-iso-octyl pntnalate, dms., c.l., dlvd	lb.	.32½-	—
l.c.l., same basis	lb.	.33½-	—
tanks, same basis	lb.	.30½-	—
Sebacate, dms., c.l., works	lb.	.63 -	—
l.c.l., works	lb.	.63½-	.64
tanks, works	lb.	.61 -	—
Di-isopropanolamine, dms., c.l., dlvd.	lb.	.22¾-	—
l.c.l., same basis	lb.	.23¾-	—
tanks, same basis	lb.	.20¾-	—
Di-isopropylamine, dms., c.l., dlvd. E. of Rockies	lb.	.50 -	—
l.c.l., same basis	lb.	.51 -	—
tanks, same basis	lb.	.46 -	—
Dillseed, dewhiskered, bgs	lb.	.10 -	.10½
nat., bgs.	lb.	.09 -	—
Dimethyl anthranilate, cns.	lb.	5.25 -	5.75
Chloroacetal, dms., c.l., works	lb.	.45 -	—
l.c.l., works	lb.	.50 -	—
tanks, works	lb.	.40 -	—
Ethanolamines, anhyd., dms., c.l., dlvd	lb.	1.22 -	—
l.c.l., dlvd.	lb.	1.23 -	—
tanks, dlvd.	lb.	1.20 -	—
70%, dms., c.l., dlvd., 100% basis, contained amines	lb.	.68 -	—
l.c.l., dlvd., 100% basis	lb.	.69 -	—
tanks, dlvd. 100% basis	lb.	.66 -	—
Hydroquinone, dms.	lb.	1.70 -	2.75
Phthalate, dms., c.l., works	lb.	.29½-	—
l.c.l., works	lb.	.30½-	—
tanks, works	lb.	.27½-	—
Sebacate, dms., c.l., works	lb.	1.27 -	—
l.c.l., dlvd.	lb.	1.28 -	—
tanks, works	lb.	1.25 -	—
Sulfate, 55-gal. ret. dms., c.l., works	lb.	.15 -	—
l.c.l. works	lb	.16 -	—
10-gal. ret. dms., l.c.l., works.	lb.	.16¼-	—
Dimethylamine, 25% soln., dms., c.l., frt. equald	lb.	.42 -	—
l.c.l., frt. equald	lb.	.42½-	—
tanks, frt. equald	lb.	.33 -	—
40% soln., dms., c.l., frt. equald	lb.	.39 -	—
l.c.l., frt. equald	lb.	.39½-	—
tanks, frt. equald	lb.	.33 -	—
N,N-Dimethylaniline, dms., c.l., frt. alld	lb.	.29½-	—
l.c.l., frt. alld	lb.	.30½-	—
tanks, frt. alld	lb.	.28½-	—
N,N-Dimethylformamide dms., works.	lb.	.34 -	.39
tanks, works	lb.	.33 -	—
2,4-Dinitroaniline, dms., 1,000-lb. lots, frt. equald	lb.	.68 -	—
smaller lots	lb.	.71 -	—
m-Dinitrobenzene, 85°C., dms	lb.	.22 -	—
89°C., dms	lb.	.24 -	—
2,4-Dinitrochlorobenzene, crystalizing at 46½°C., dms., c.l., frt. alld. E	lb.	.15¼-	—
l.c.l., frt. alld E	lb.	.15¾-	—
tanks, frt. alld E	lb.	.15 -	—
crystalizing at 48°C., dms., c.l., frt. alld. E	lb.	.20¼-	—
l.c.l., frt. alld. E	lb.	.20¾-	—
tanks, frt. alld. E	lb.	.20 -	—
2,4-Dinitrophenol, bbls	lb.	.37 -	—
2,4-Dinitrotoluene, oily, dms	lb.	.11 -	—
refd., 63°C., dms	lb.	.23 -	—
Dioctyl adipate, dms., c.l., works.	lb.	.42 -	—
l.c.l., works	lb.	.43 -	—
tanks, works	lb.	.40 -	—

Dioctyl phthalate, dms., c.l., frt. alld.	lb.	.32½-	—
l.c.l., frt. alld	lb.	.33½-	—
tanks, frt. alld	lb.	.30½-	—
Sebacate, dms., c.l., works,	lb.	.60 -	—
l.c.l., works	lb.	.60½-	.61
tanks, works, dlvd	lb.	.58 -	.58½
Di-o-tolylguanidine, dms., ton lots, frt. alld	lb.	.60 -	—
smaller lots, frt. alld	lb.	.61 -	—
1,4-Dioxane, dms., c.l., works	lb.	.28¾-	—
l.c.l., same basis	lb.	.29¼-	—
tanks, same basis	lb.	.27 -	—
Dip oil (see Tar acid oil).			
Dipentaerythritol, bgs., l.c.l., works.	lb.	.35 -	—
Dipentene, dest-dist., dms., c.l., works	gal.	.47 -	—
l.c.l., works	gal.	.52 -	—
ex-whse.	gal.	.62 -	—
steam-dist., dms., c.l., works, South	gal.	.59 -	—
dlvd. N. Y	gal.	.67 -	—
tanks, works, South	gal.	.45 -	—
Diphenyl, bbls., c.l., works	lb.	.15 -	—
l.c.l., works	lb.	.16 -	—
Diphenyl in bags ¼c. lower.			
Oxide, perfume grade, cns	lb.	.54 -	.61
Phthalate, dms., c.l., works	lb.	.51¾-	—
l.c.l., works	lb.	.53¾-	—
Diphenylamine, refd., flake, bgs., c.l., works, frt. equald	lb.	.31 -	—
l.c.l., works, frt. equald	lb.	.33 -	—
fused, tanks, works, frt. equald.	lb.	.29 -	—
tech., fused, tanks, works, frt. equald	lb.	.28 -	—
Diphenylguanidine, bgs., dms., ton lots, frt. alld	lb.	.50 -	—
smaller lots, frt. alld	lb.	.51 -	—
Diphenylhydantoin-sodium USP, dms	lb.	5.00 -	5.60

Dipropylene glycol, dms., c.l., frt. alld	lb.	.17¼-	—
l.c.l., same basis	lb.	.18¼-	—
tanks, same basis	lb.	.15¼-	—
Monomethyl ether, dms., c.l., dlvd. E	lb.	.20 -	—
l.c.l., same basis	lb.	.21 -	—
tanks, same basis	lb.	.18½-	—
Divi-divi, 45% tannin, bgs., bls., c.l., U.S. ports, exdock	ton.	70.00	-72.00
Divinylbenzene, 20-25% dms., c.l., works, frt. equald	lb.	.20 -	—
l.c.l., same basis	lb.	.21 -	—
tanks, same basis	lb.	.19 -	—
50-60%, dms., c.l., works, 100% basis	lb.	1.00 -	—
l.c.l., works, 100% basis	lb.	1.05 -	—
Dodecylbenzene, dms., c.l., frt. alld	lb.	.14 -	—
l.c.l., same basis	lb.	.15 -	—
tanks, same basis	lb.	.12 -	—
Dyes, coaltar, certified colors for food, drugs and cosmetics, 500-lb. and 1-lb. lots, dlvd:—			
Blue, FD & C, No. 1	lb.	15.65	-17.60
No. 2	lb.	15.65	-17.60
Green, FD & C, No. 1	lb.	15.65	-17.60
No. 2	lb.	19.60	-22.85
No. 3	lb.	21.30	-35.90
Red, FD & C, No. 1, cns	lb.	5.90	- 7.85
No. 2	lb.	3.30	- 4.10
No. 3	lb.	19.60	-22.85
No. 4	lb.	5.55	- 7.50
Violet, FD & C, No. 1, cns	lb.	15.65	-17.60
Yellow, FD & C, No. 1, cns	lb.	9.15	-11.05
No. 5	lb.	3.30	- 4.10
No. 6	lb.	3.30	- 4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 200 lb. and 1 lb. lots, dlvd:—			
Black, D&C, No. 1	lb.	10.50	-10.95
Brown, D&C, No. 1	lb.	15.65	-16.10
Green, D&C, No. 5	lb.	15.65	-16.10
No. 6	lb.	15.65	-16.10
No. 7	lb.	14.35	-14.80
Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, dlvd:—			
Orange, D&C, No. 3	lb.	10.50	-10.95
No. 4	lb.	19.60	-20.05
No. 5	lb.	5.25	- 5.70
No. 17	lb.	10.50	-10.95
No. 18	lb.	23.55	-24.00
No. 19	lb.	15.00	-15.45
No. 21	lb.	3.10	- 3.60
No. 22	lb.	10.50	-10.95
No. [illegible]	lb.	24.20	-24.65
No. 33	lb.	17.00	-17.45
Violet,, D&C, No. 2	lb.	15.65	-16.10
Yellow D&C, No. 7	lb.	10.50	-10.95
No. 8	lb.	10.50	-10.95
No. 10	lb.	13.05	-13.50
No. 11	lb.	13.05	-13.50
Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb. lots, works, 25-50 lb. lots, dlvd:—			
Blue, Ext., D&C, No. 1, cns	lb.	15.65	-16.10
Green, Ext., D&C, No. 1, cns	lb.	15.65	-16.10
Red, Ext., D&C, No. 1, cns	lb.	13.05	-13.50
Yellow, Ext., D&C, No. 1, cns	lb.	10.50	-10.95



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Dyes, Coaltar—Ethylene Glycol Monomethyl Ether

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd. No.

20 Chrysoidine Y, dustless lb. .89 • —
27 Fast light, orange 2G... lb. 1.09 • —
31 Phloxine 2G ..... lb. .89 • —
36 Yellow 2G ..... lb. 1.00 • —
40 Orange R extra, conc....lb. 1.29 • —
57 Fuchsine 6B.....lb. 1.31 • —
79 Scarlet 2R .....lb. .98 • —
151 Orange AD.....lb. .67 • —
161 Orange RR.....lb. .80 • —
176 Fast red A.....lb. 1.18 • —
179 Rubine XX, conc.....lb. 1.25 • —
180 Blue F4B .....lb. 1.11 • —
185 Brilliant scarlet 3RU, conc. lb. 1.02 • —
202 Chrome blue black R, conc. lb. .91 • —
861 Brown B .....lb. 2.45 • —
551 Black EB, 200%..... lb. 1.13 • —
203 Chrome black T.....lb. .94 • —
208 Fast blue SR .....lb. 1.10 • —
216 Chrome red B.....lb. .92 • —
234 Brown Y.....lb. 1.08 • —
246 Blue black, extra, conc lb. 1.16 • —
275 Milling red 3R, conc.....lb. 1.62 • —
289 Navy blue 3R, conc.....lb. 1.44 • —
299 Black F, conc .....lb. 1.86 • —
304 Neutral black 2B, conc. lb. 2.43 • —
326 Fast scarlet 4BNC..... lb. 1.80 • —
332 Bismark brown RX, conc., dustless lb. 1.16 • —
365 Brilliant yellow, conc... lb 3.11 • —
382 Scarlet B .....lb. 2.20 • —

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd. No.

401 Diazo black BHD.....lb. .79 • —
406 Blue 2B, extra conc.....lb. 1.30 • —
419 Red FC.....lb. 1.23 • —
420 Brown M.....lb. 1.19 • —
448 Red 4BX, conc.....lb. 1.43 • —
518 Diamine sky blue FF, extra, conc. lb. 1.65 • —
593 Green BY, conc.....lb. .87 • —
596 Yellow Brown K, extra..lb. 1.07 • —
620 Yellow 2G.....lb. 1.11 • —
639 Fast Yellow GG.....lb. 1.97 • —
640 Yellow XX.....lb. 1.95 • —
655 Yellow OX.....lb. 2.24 • —
657 Green V.....lb. 2.31 • —
662 Brilliant green G.....lb. 3.07 • —
667 Milling green 6B, conc..lb. 4.05 • —
671 Blue EG.....lb. 1.68 • —
681 Crystal violet powder....lb. 2.15 • —
698 Violet 6BN Powder.....lb. 1.91 • —
720 Brilliant blue BBG.....lb. 2.07 • —
729 Blue B, conc.....lb. 3.06 • —
749 Red BX .....lb. .87 • —
800 Chinoline yellow ZSS.....lb. 2.67 • —
860 Induline base ZM .....lb. 1.07 • —
860 Induline base Z2R.....lb. 1.07 • —
814 Yellow NN, conc.....lb. 3.11 • —
841 Safranine GF, extra, conc. lb. 3.48 • —
865 Nigrosine J.....lb. 4.76 • —
922 Blue GXX .....lb. 1.88 • —
978 Black GXCF, conc.....lb. .32 • —
1034 Alizarine red SC.....lb. 2.85 • —

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd., No.

1054 Alizarine blue SAPX.....lb. 3.20 • —
1078 Alizarine green CG, extra. lb. 2.99 • —
1085 Alizarine blue black B lb. 2.56 • —
1096 Golden orange GFD, single paste lb. 2.19 • —
1099 Dark blue BO, single paste. lb. 1.93 • —
1101 Jade green N, double paste. lb. 1.10 • —
1106 Blue RS, double paste lb. 3.26 • —
1113 Blue BLFD, double paste.lb. 2.48 • —
1150 Olive R, single paste....lb. 1.21 • —
1151 Brown R, single paste.....lb. 1.94 • —
lb. .31 • —
1217 Orange RD, double powder. lb. 3.94 • —
1171 Indigo synthetic, 20% paste.
p-4 Brown PG.....lb. 2.54 • —
p-14 Brown EB.....lb. 1.83 • —
p-24 Gray L .....lb. 1.76 • —
p-80 Diazo brilliant scarlet ROAD lb. 3.07 • —
p-202 Diazo black VJ, conc....lb. 2.10 • —
p-244 Brilliant scarlet BN.....lb. 1.44 • —
p-313 Naphthol SWF.....lb. 2.24 • —

Dyes, coaltar, oil soluble, 100 lb. dms., dlvd.

24 Oil orange Z-7078.....lb. 1.06 • —
73 Oil scarlet ZBL.....lb. 1.44 • —

Dyes, coaltar, for stains, oil soluble, 100-lb. dms., sellers' works,

1073 Oil violet ZIRS.....lb. 6.81 • —
1078 Alizarine cyanine green base Z..lb. 4.50 • —
1080 Oil violet special Z.....lb. 6.81 • —
Oil black ZBC.....lb. 4.46 • —
Oil black ZBD.....lb. 3.03 • —

Dyes, coaltar, for stains, oil soluble, 100-lb. dms., sellers' works,

Oil black ZHH.....lb. 4.61 • —
Oil black ZMM.....lb. 6.52 • —
Oil blue ZN.....lb. 8.02 • —
Oil blue ZV .....lb. 4.95 • —
Oil orange ZMG.....lb. 1.32 • —
Oil red Z-1700.....lb. 1.49 • —
Oil yellow ZG, conc.....lb. 6.33 • —

Dyes, coaltar, spirit soluble, 100 lb. dms., dlvd.

p-517 Spirit yellow ZR.....lb. 4.62 • —
p-520 Spirit orange ZR, conc...lb. 5.87 • —
Spirit black ZRB.....lb. 2.95 • —
Spirit brown ZG..... lb. 5.30 • —
Spirit red ZB, conc.....lb. 6.41 • —

E

Echinacea root, bls.....lb. 1.10 • —
Egg albumin (see Albumin).
Yolk, dried, dom., bbls.....lb. 1.05 • 1.07
tanners, bbls.....lb. .06 • .06¼
Elm bark, grinding, bls.....lb. .30 • .32
powd., bbls., bxs.....lb. .45 • —
select, bundles .....lb. .75 • —
Emetine hydrochloride, USP, bots oz.42.50 -44.00
Endrin, tech., dms., dlvd., 100% basis lb. 3.75 • —
Ephedrine, syn., USP, anhyd., bots., 100-oz. lots oz. .98 • 1.00
hydrous bots., 100-oz. lots oz. .92 • —
Hydrochloride, tins, 100-oz. lots, oz. .75 • —
Sulfate, cryst., tins, 100-oz. lots, oz. .72 • —
powd. tins 100-oz. lots oz. .73 • —
Epichlorohydrin, dms., c.l., dlvd lb. .35 • —
l.c.l., dlvd.....lb. .36 • —
tanks, dlvd.....lb. .33 • —
Epinephrine, syn., USP, bots., 100-gram lots gram. .60 • —
Epsom salt (see Magnesium sulfate).
Ergosterol, unirradiated, cryst kilo.150.00 • —
Ergot, NF, dms., tin-lined.....lb. 2.00 • —
Eserine salicylate, bots.....oz.84.00 • —
Sulfate, bots.....oz.84.00 • —
Ether (see specific product).
Ethyl acetate, nat., ferment., 85-88%, dms., c.l., frt. alld. lb. .14 • —
l.c.l., frt. alld.....lb. .15 • —
tanks, frt. alld.....lb. .11½- —
95-96%, dms., c.l., frt. alld. lb. .14¼- —
l.c.l., frt. alld .....lb. .15¼- —
tanks, frt. alld .....lb. .11¾- —
99%, dms., c.l., frt. alld lb. .14½- —
l.c.l., frt. alld.....lb. .13½- —
tanks, frt. alld.....lb. .12 • —
syn., 85-88%, dms., c.l., dlvd. lb. .14 • —
l.c.l., dlvd.....lb. .15 • —
tanks, dlvd.....lb. .11½- —
95-98%, dms., c.l., dlvd....lb. .14¼- —
l.c.l., dlvd.....lb. .15¼- —
tanks, dlvd.....lb. .11¾- —
99%, dms., c.l., dlvd.....lb. .14½- —
l.c.l., dlvd.....lb. .15½- —
tanks, dlvd.....lb. .12 • —
Acetoacetate, dms., c.l., dlvd lb. .58 • —
l.c.l., dlvd.....lb. .59 • —
tanks, dlvd .....lb. .56 • —
Acrylate, dms., c.l., t.l., dlvd lb. .36 • —
l.t.l., dlvd.....lb. .37 • —
tanks, dlvd.....lb. .34 • —
Aminobenzoate, USP (see Benzocaine).
Bromide, tech., 98%, dms., c.l., frt. alld. E lb. .42 • .44
l.c.l., frt. alld. E .....lb. .44 • .46
Butyl ketone, dms, c.l., works lb. .35½- —
l.c.l., works.....lb. .36 • —
tanks, works.....lb. .34 • —
Butyrate, works .....lb. .80 • 1.02
Carbamate (see Urethane).
Cellulose, vis. 7 cps., bgs., 5,000-lb. lots or more, works lb. .70 • —
smaller lots, works lb. .72 • .80
vis. 10, 20, 50, 100, 150 cps., bgs., 2,000-lb. lots or more, works..lb. .65 • .70
smaller lots, works....lb. .67 • .81
Chloride, tech., cyl., works..... .20 • .22
dms., works.....lb. .18 • .20
tanks, works.....lb. .10 • —
Cinnamate, cns.....lb. 2.71 • 3.45
Ether, absoluate, ACS, dms....lb. .27 • —
anesthesia, USP, hospitals, 1-lb. cns..lb. 1.01 • —
½-lb. cns.....lb. 1.11 • —
¼-lb cns.....lb. 1.21 • —
indust., dms., c.l., dlvd.....lb. .12 • —
l.c.l., dlvd. E. .....lb. .13 • —
tanks, dlvd. E. .....lb. .10 • —
Gallate, dms., 100 to 2,000-lb. lots .....lb. 3.90 • 4.40
Iodide, cbys., works.....lb. 3.30 • —
Methacrylate, dms., c.l. and less than truckload, works, frt. equald lb. .51½- .53
Morphine hydrochloride, USP, bots. oz.11.85 • —
Nitrite (see Nitrous ether).
Oenanthate, dms. .....lb. 1.00 • 1.50
Oleate, dms., l.c.l., works..... lb. No prices.
Oxalate (see Diethyl oxalate).
Silicate dist. (see Tetraethyl orthosilicate).
40% available SiO_2, dms., c.l., dlvd. lb. .49 • —
l.c.l., dlvd.....lb. .50 • —
tanks, dlvd.....lb. .47 • —
Ethylethanolamines, mixed, dms., l.c.l., dlvd E.....lb. .44½- —
tanks, dlvd. E.....lb. .41½- —
N-Ethyl-a-naphthylamine, dms., works, lb. 1.02 • —
c.l., dlvd. E..lb. .43½- —
N-Ethyl-o-toluidide, bbls. .....lb. .88 • —
Ethylamine (see Mono. Di- or Tri-)
N-Ethylaniline, dms., c.l., frt. alld. lb. .51 • —
l.c.l., frt. alld.....lb. .52 • —
tanks, frt. alld.....lb. .50 • —
Ethylbenzene, 99%, dms., c.l., or t.l., frt. equald..lb. .17 • —
l.t.l., same basis.....lb. .18 • —
tanks, same basis .....lb. .15 • —
Ethylene dichloride, dms., c.l., dlvd. lb. .10¼- —
l.c.l., same basis.....lb. .12¼- —
tanks, same basis .....lb. .09 • —
Ethylene dichloride prices W. of Rockies, 1c. per lb. higher.
Glycol, indust., dms., c.l., dlvd. E..lb. .15½- —
l.c.l., same basis..... lb. .16½- —
tanks, same basis.....lb. .13½- —
Monobutyl ether, dms., c.l., dlvd. E..lb. .21½- —
l.c.l., dlvd. E.....lb. .22½- —
tanks, dlvd. E.....lb. .19½- —
Monoethyl ether, dms., c.l., dlvd. E..lb. .20½- —
l.c.l., dlvd. E..... lb. .21½- —
tanks, dlvd. E..... lb. .18½- —
acetate, dms., c.l., dlvd. E.lb. .19 • —
l.c.l., dlvd. E.....lb. .20 • —
tanks, dlvd. E.....lb. .17 • —
Monomethyl ether, dms., c.l., dlvd. E..lb. .20½- —
l.c.l., dlvd. E..... lb. .21½- —
tanks, dlvd. E..... lb. .18½- —
acetate, dms., c.l., dlvd. E lb. .28¾- —
l.c.l., dlvd. E..... lb. .29¼- —
tanks, dlvd. E.....lb. .27 • —

MONTROSE
CHEMICAL COMPANY
104-112 LISTER AVENUE
NEWARK, NEW JERSEY

Highest Purity ***Water Stable***
ETHYL SILICATE
Water White Acid Free
40% — 28%

Montrose Ethyl Silicates are highly stable to water and pass a rigid water stability specification which is very important for reproducible formulation also for storage and handling.

EXCLUSIVE SALES AGENTS
R. W. GREEFF & CO., INC.
10 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.
1721 TRIBUNE TOWER, CHICAGO, ILLINOIS

Ethylene glycol monomethyl ether monostearate, triple pressed, dms. lb. .34 - —
Oxide, dms., c.l., dlvd. E..... lb. .21½- —
l.c.l., dlvd. E..... lb. .24½- —
tanks, dlvd. E..... lb. .15½- —
Trichloride (see Trichloroethane).
Ethylenediamine, 85-88%, dms., c.l., dlvd. E, 100% basis..lb. .46 - —
l.c.l., dlvd. E., 100% basis..lb. .47 - —
tanks, dlvd. E., 100% basis..lb. .44 - —
Ethylvanillin, cns., 25-lb. lots....lb. 6.20 - 6.75
Eucalyptol, USP, cns., dms.....lb. 1.25 - 1.50
Eugenol, USP, bots.....lb. 2.65 - —
Euphorbia herb, bls.....lb. .15 - .17

F

Feldspar, 140-200 mesh, bulk, c.l., works ton.18.50 - —
Feldspar in bags $3 per ton higher
Fennel seed, Argentine, bgs.....lb. .17½- —
Czech, medium, bgs.....lb. .11½- —
Indian, light, bgs.....lb. .12 - .13
Roumanian, bgs.....lb. .11 - —
Fenugreek seed, Indian, bgs.....lb. .08½- .09
Moroccan, bgs.....lb. .08½- .09
Ferric acetate, liquor, 28°, bbls., c.l., works lb. .09 - —
l.c.l., works.....lb. .09¾- —
soln., USP IX, cbys.....lb. .16 - —
djns.....lb. .17 - —
Cacodylate, NF, bots.....lb.13.00 -14.00
Chloride, anhyd., tech., dms., c.l., works..100 lbs. 7.00 - —
l.c.l., works.....100 lbs. 7.85 - —
indust., cryst., bbls., c.l., works, 100 lbs. 5.25 - 6.75
l.c.l., works.....100 lbs. 5.75 - 7.25
42° Be, photo grade, cbys., c.l., works..100 lbs. 7.25 - 8.25
sewage grade, tanks, frt, equald, 100% basis, 100 lbs. 3.50 - —
USP, cryst., dms., works..lb. .07¼- .09
Citrate, gran., dms.....lb. .86 - —
Hypophosphite, NF, dms.....lb. 3.45 - —
Naphthenate, liq., 6% Fe., dms., frt. alld lb. .25¾- —
Oxalate, gran. dms.....lb. .85 - .87
Oxides (see iron oxides under Black, Brown, Red, and Yellow).
Phosphate, NF, soluble, gran., pearls, cs lb. .64 - .65
Pyrophosphate, NF VII, soluble, powd., gran., pearls, dms., 10,000 lb. lots..lb. .40½- —
Resinate, 6¾% Fe, dms., frt. alld. lb. .29½- —
Stearate, dms., c.l., frt. alld..lb. .37 - —
l.c.l., frt. alld.....lb. .38 - .43
Sulfate, partially hydrated, bgs., c.l., works..ton.31.75 -33.75
l.c.l., works ton.34.75 -40.75
lb. .37 - —
Ferric-ammonium citrate, brown, pearls, NF, gran., dms..lb. .60 - .63
green, pearls, USP XII, gran., dms..lb. .60 - .63
Oxalate, fine gran., dms....lb. .25½- .28½
Ferric-potassium oxalate, fine gran., dms..lb. .30½- .33½
Ferric-sodium oxalate, fine gran., dms..lb. .25½- .28½
Ferrous gluconate, NF, dms....lb. .94 - —
Sulfate, gran., bgs., c.l., works, ton.34.50 - —
l.c.l., dlvd. Metropolitan area..100 lbs. 3.35 - 4.25
bbls., c.l., works.....ton.40.00 - —
bulk, c.l., works.....ton.27.00 - —
USP, cryst., bbls., dms.....lb. .09½- .10
Fir, balsam, Canada, cns.....gal.32.00 - —
Oregon, bbls.....gal. 4.00 - —
Fishliver oil (see Oil fishliver).
Fishmeal, dom., menhaden, 60% protein grd., bgs., Chesapeake Bay area ton.130.00 -133.00
Scrap, same basis..ton.126.00 -129.00
Fleaseed (see Psyllium seed)
Formaldehyde, USP, 37% (inhibited), methanol, Zone 1, dms., c.l., dlvd..lb. .0675- —
l.c.l., works.....lb. .072 - .0725
tanks, dlvd.....lb. .04 - —
Zone 2, 12-15%, methanol, dms., c.l., dlvd..lb. .071 - —
tanks, dlvd.....lb. .043 - —
Methanol-free (uninhibited), Zone 1, tanks, dlvd.....lb. .0375- —
Zone 2, tanks, dlvd.....lb. .04 - —
Fringetree bark, bls.....lb. .60 - .61
Fullers' earth, bgs., c.l., Ill. mines, ton.19.00 - —
powd., insecticide grade, dried, bgs., c.l., Ga. or Fla. mines..ton.17.50 - —
calcined, bgs., c.l., same basis ton.20.00 -21.75
oil-bleaching grade, 100-mesh, bgs., c.l., same basis..ton.16.30 -17.00
200-mesh, bgs., c.l., same basis..ton.17.50 -18.00
spent, bgs., c.l., shipt. point..ton. 4.50 - 5.00
Furfural, dms., c.l., works.....lb. .13 - —
l.c.l., works.....lb. .14 - —
tanks, dlvd. E.....lb. .12 - —
dlvd. W.....lb. .13 - —
Fusel oil, refd., dms., c.l., dlvd..lb. .18 - —
l.c.l., dlvd.....lb. .19 - —
tanks, dlvd.....lb. .15½- —
Fustic extract, cryst., No. 1, bbls., l.c.l..lb. .47½- —
No. 2, bbls., l.c.l.....lb. .45½- —
No. 3, bbls., l.c.l.....lb. .43½- —
liq., No. 1, bbls., l.c.l.....lb. .22½- —
No. 2, bbls., l.c.l.....lb. 21½- —
No. 3, bbls., l.c.l.....lb. .19 - —
solid, No. 1, bxs., l.c.l.....lb. .43 - —

G

G salt, bbls., frt. alld, 100% basis.lb. .73 - —
Gammapicoline (see g-Picoline).
Gelatin, edible, pure (pork skin), 75 Bloom test, bbls., c.l..lb. .48 - —
150 Bloom test, bbl., c.l..lb. .59 - —
200 Bloom test, bbl., c.l..lb. .63 - —
225 Bloom test, bbl., c.l..lb. .68 - —
275 Bloom test, bbl., c.l..lb. .76 - —
Gelsemium root, bls.....lb. .23 - .24
Gentian root, bls.....lb. .17 - .20
grd., bbls., bxs.....lb. .22 - .23
powd. bbls., bxs.....lb. .23 - .24
Geraniol, extra, cns., dms.....lb. 4.50 - 4.80
standard, cns., dms.....lb. 4.20 - —
Geranyl acetate, cns.....lb. 4.50 - 4.80
Ginger oleoresin, NF, from African root, bots..lb. 4.00 - 7.75
from Jamaican root, bots..lb. 6.00 -10.25
Root, African, bls.....lb. .33 - .34
Cochin, bgs.....lb. .31 - .32
Jamaican, No. 2, bgs.....lb. .60 Nom.
No. 3, bgs.....lb. .64 - —
Nigerian, split, bgs.....lb. .29 - —
Glauber's salt, anhyd. (see Sodium sulfate).
Glue, bone, extracted, dry bone, 86 jellygrams, bgs., c.l., dlvd..lb. .15 - —
104 jellygrams, same basis..lb. .17 - —
131 jellygrams, same basis..lb. .18 - —
164 jellygrams, same basis..lb. .20½- —
191 jellygrams, same basis..lb. .21 - —
222 jellygrams, same basis..lb. .22 - —
green, 40 jellygrams, bgs., c.l., dlvd..lb. .13½- —
63 jellygrams, same basis..lb. .13¾- —
86 jellygrams, same basis..lb. .14 - —
115 jellygrams, same basis..lb. .14½- —
Glue, bone, green, 135 jellygrams, bgs., c.l., dlvd..lb. .15 - —
164 jellygrams, same basis..lb. .16 - —
180 jellygrams, same basis..lb. .17 - —
200 jellygrams, same basis..lb. .18½- —
Bone glue, l.c.l. prices 1c. higher.
Hide, 70-94 jellygrams, bgs., c.l., dlvd..lb. .15 - —
95-121, bgs., c.l., dlvd.....lb. .16 - —
122-149, bgs., c.l., dlvd.....lb. .18 - —
150-177, bgs., c.l., dlvd.....lb. .20 - —
178-206, bgs., c.l., dlvd.....lb. .22 - —
207-236, bgs., c.l., dlvd.....lb. .24 - —
237-266, bgs., c.l., dlvd.....lb. .26 - —
267-298, bgs., c.l., dlvd.....lb. .28 - —
299-330 bgs., c.l., dlvd.....lb. .30 - —
331-362, bgs., c.l., dlvd.....lb. .32 - —
363-394, bgs., c.l., dlvd.....lb. .34 - —
395-427, bgs., c.l., dlvd.....lb. .36 - —
428-460, bgs., c.l., dlvd.....lb. .38 - —
461-494, bgs., c.l., dlvd.....lb. .40 - —
495-529, bgs., c.l., dlvd.....lb. .41 - —
Hide glue l.c.l. prices 1c. higher.
Glycerine, nat., crude, saponification, 88%, to refineries, tanks....lb. .18½ Nom.
soaplye, 80%, tanks.....lb. .16½- —
refd., BP, 98%, dms., c.l., dlvd. lb. .31½- —
l.c.l., dlvd.....lb. .32 - —
tanks, dlvd lb. .30
dynamite, dms., c.l., dlvd..lb. .31¼- —
l.c.l., dlvd.....lb. .31¾- —
tanks, dlvd.....lb. .29¾- —
high gravity, dms., c.l., dlvd. lb. .31¼- —
l.c.l., dlvd.....lb. .31¾- —
tanks, dlvd.....lb. .29¾- —
USP, CP, 95%, dms., c.l., dlvd. lb. .30½- —
l.c.l., dlvd.....lb. .31 - —
tanks, dlvd.....lb. .29 - —
yellow, dist., dms., c.l., dlvd. lb. .30½- —
l.c.l., dlvd. .....lb. .31 - —
Glycerine, syn., dms., c.l., dlvd..lb. .31½- —
l.c.l., dlvd.....lb. .32 - —
tanks, dlvd.....lb. .30 - —
Glycine (see Acid aminoacetic).
Glycerol (see Cylcerine).
Glyoxal, 30%, dms., c.l., works..lb. .18½- —
l.c.l., works.....lb. .19 - —
tanks, works.....lb. .18 - —
Golden seal root, NF, tested, bls. lb. 2.25 - 2.50
powd., bxs.....lb. 2.75 - 3.25
Graphite, amorph., powd., bgs., fib. dms., ex whse lb. .06 - .09½
crystalline, 88-90%, powd., bgs., fib dms., ex whse lb. .19 - .21½
90-92%, powd., bgs., fib. dms., ex whse lb. .21 - .24½
95-97%, powd., bgs., fib. dms., ex whse lb. .29 - .31½
flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
No. 2, 90-95% bgs., fib. dms., ex whse lb. .29 - .31
Grease, white, choice, tanks, dlvd. lb. .06⅞- .07⅛
yellow, tanks, dlvd.....lb. .06⅜- —
Green, brilliant, thioflavin, toner, molybdated, PMA, kgs., works lb. 5.10 - —
tungstated, PTMA, kgs., works. lb. 6.40 - —
Chrome, CP, dark, light, medium, blue content 1 to 15%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minn., Davenport, Rock Island, St. Louis.....lb. .40 - —
16-30%, bbls., same basis.lb. .40 - —
Green, chrome, cp, 31-45%, bbls., same basis..lb. .41 - —
45-49%, bbls., same basis..lb. .44 - —
reduced color, 25%, bbls., same basis..lb. .19 - —
Chrome green prices are ½c. higher, dlvd. at the following points, except as noted:—Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Chromium oxide, hydrated, bbls., fib. dms., c.l., frt. alld lb. 1.00 - 1.10
pure, bgs., c.l., frt. alld....lb. .42 - —
l.c.l. same basis.....lb. .43 - —
Dyes (see Dyes, coaltar).
Malachite, straight, PTMA, bbls., works lb. 4.60 - —
Paris (see Paris green).
Phthalocyanine toner, bbls., works. lb. 3.95 - —
resinated, bbls.....lb. 3.50 - —
water dispersable, bbls....lb. 1.71 - —
Pigment B, kegs.....lb. 1.35 - —
paste, kegs.....lb. .36 - —
Grindelia robusta herb, bls.....lb. .38 - .40
Guaiacol, NF, cryst., dms., tins lb. 2.10 - 2.15
liq., cbys., dms.....lb. 2.30 - 2.40
Carbonate, NF VII, dms.....lb. 3.40 - 3.45
Gum, aloe (see Aloe).
Arabic amber sorts, bgs.....lb. .22 - .23
powd., USP, bbls.....lb. .27 - .28
Asafetida (see A).
Asphaltum (see A).

TRIMETHYLOLPROPANE

another new aldol product from Celanese

1 In continuous large volume...
2 With exceptionally high purity...
3 At a new low cost...

For all producers of polyurethanes and alkyd resins, Celanese expanded production of trimethylolpropane—in the right volume, quality, and at a new low price—is important news.

No longer will it be necessary to pass up the processing and product improvements this polyol can contribute. Now manufacturers can take full advantage of the better adhesion, color, color retention, and hardness it provides in alkyd-based baking enamels . . . the greater mixing ease it offers in compounding polyesters and pre-polymers with diisocyanates.

The way is also clear now for the commercial development of other indicated uses for trimethylolpropane—in the production of synthetic drying oils, plasticizers, surface active agents, polyesters. For working samples and prices write to Celanese Corporation of America, Chemical Division, Dept.656-F, 180 Madison Ave., N. Y. 16.

CELANESE® TRIMETHYLOLPROPANE

Descriptive Data

Hydroxyl value, % by wt., min.	37.5
Water content, % by wt., max.	0.05
Color (10% soln.), APHA, max.	5
Phthalic color, Gardner, max.	1
Acidity, as formic, % by wt., max.	0.002

Q. Why can Celanese produce trimethylolpropane at a price well below that of comparable purity grades?

A. Through the production efficiencies and economies of expanded aldol capacity . . . special Celanese-developed processes . . . and a basic position in aldehydes.

Trimethylopropane is the second in a new series of aldol developments and will be followed by several others—new polyols, glycols and aldehydes. Celanese 3-Methoxy Butanol, first in the series, is already being produced in large quantities.

Celanese® CHEMICALS

Gum, benzoin, Sumatra, cs ..... lb. .38 - .42
Camphor (see C).
Cellulose, high vis., bgs., 23,000-lb. lots or more, works, frt. alld lb. .55 - —
smaller lots, same basis lb. .57 - —
Copal, Congo, No. 1, bgs ..... lb. .23 - —
No. 2, bgs ..... lb. .19 - .21
No. 3, bgs ..... lb. .16½ - 18
Manila C, bgs ..... .40 - .42
CBB, bgs ..... lb. .37 Nom.
DBB, bgs ..... lb. .29 - .31
DK, bgs ..... lb. No stocks.
dust, bgs ..... lb. .14 - Nom.
MA, soft, bgs ..... lb. .21 - .23
WS, bgs ..... lb. No stocks.
Philippine, pale, chips, bgs lb. .24 - .26
bgs lb. .24 - .26
nubs, bgs ..... lb. .33 - .35
seeds, bgs ..... lb. .20 - .22
sorts, bgs ..... lb. .22 —
Pontianak, chips, bgs ..... lb. .38 —
nubs, bgs ..... lb. .39 .40
Dammar, Batavia, A, E, cs ..... lb. .27 - .29
dust, bgs ..... lb. .16½ .17½
E, bgs ..... lb. .20 .22
East India, batu, bold, bgs lb. .14 - .15½
nubs and chips, bgs lb. 08 09
black, bold, bgs ..... lb. .14 .16
unscraped, bgs ..... lb. .11 - .13
nubs and chips, bgs ... lb. .11 .13
pale, chips, bgs ..... lb. .14½ - .15½
nubs, bgs ..... lb. .18 .19
Siam, cs ..... lb. .39 —
Singapore, No. 1, bgs ..... lb. .46 - .48
No. 2, bbls ..... lb. .31 - .34
No. 3, bbls ..... lb. No stocks.

Gum, dammar, Singapore, No. 3, dust, bgs lb. .16½ - .17
seeds, bgs ..... lb. .20 - .22
Ester, gum-rosin type, dms., c.l., dlvd. Ill., Md., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va ..... lb. .14½ - .16
wood-rosin type, dms., c.l., same basis lb. .15 - .16
Guar, food grade, bgs., c.l. .... lb. .50 - —
tech. grade, bgs., c.l. ..... lb. .40 - —
Karaya, No. 1, NF, powd., bbls lb. .55 - —
lb. .55 - —
No. 2, powd., bbls. ..... lb. .45 - —
No 3, powd., bbls ..... lb. .40 - —
Locust bean, powd., bgs ..... lb. .38 - .41
Myrrh, cs. ..... lb. .55 - —
Opium (see Opium).
Olibanum siftings, cs ..... lb. .15 - .20
tears, cs ..... lb 22 30
Rosin (see Naval Stores, Protective Coatings Market).
Sterculia (see Gum Karaya).
Tragacanth, No. 1, ribbons, cs. lb. 3.50 - 4.25
No. 2, cs ..... lb. 3.00 - 3.50
No. 3, cs ..... lb. 2.50 - 3.00
powd., USP, bbls ..... lb. 2.25 - 2.30
Gypsum, plaster of paris, 100-lb. paper bgs. trucks, dlvd. N Y C ton. 20.30 - —
Terra alba, dom., paper bgs., same basis ton. 20.00 - —
works, N. Y. C ..... ton. 17.00 - —

Gypsum, terra alba, imp., English, 100-lb. paper bgs., ex dock, N. Y. C. ton. 55.00 - —
ex warehouse ..... ton. 60.00 - 62.00

H

Hawthorn berries, bgs ..... lb. .24 - .28
Heliotropin, 100-lb. lots, dms ..... lb. 3.30 - 3.70
Hellebore root, dom., green, bls. lb. .70 - 75
Helonias root, bls ..... lb. 1.75 - 2.00
Hematine extract, cryst., No. 1, bbls., l.c.l. lb. .47 - —
No. 2, bbls., l.c.l. ..... lb. .43 - —
No. 3, bbls., l.c.l. ..... lb. .41 - —
No 4, bbls., l.c.l. ..... lb. .39 - —
No 5, bbls., l.c.l ..... lb. .37 - —
paste, No. 1, bbls., l.c.l. ..... lb. .20½ - —
Henbane leaves, bls ..... lb. .35 - .40
Heptane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex ..... gal. .14¾ - —
Borger Tex ..... gal. .14¾ - —
Hesperidin, purified, 25 lb. lots, f.o.b. works lb. 8.95 - —
Methylchalcone, bots., works, 50-lb. lots. lb. 22.50 - —
5-lb lots ..... lb. 23.00 - —
1-lb lots ..... lb. 23.50 - —
Hexachlorophene, dms ..... lb. 1.98 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 20,000-lb. lots or more, Perth Amboy or N.Y.C. lb. .222 - —
1,000-19,999-lb. lots, same basis lb. .232 - —
smaller lots, same basis lb. .242 - —
fib. dms., 1,000-lb. lots or more, same basis lb. .239 - —
smaller lots, same basis .... lb. .242 - —
USP, dms., 500-lb. lots or more, smaller lots, same basis ... lb. .41½ - —

Hexane, indust., tanks, Bayonne, N. J. gal. .19 - —
Baytown, Tex ..... gal. .15½ - —
Borger, Tex ..... gal. .15½ - —
1-Hexanol, dms., c.l., works ..... lb. .34½ - —
t.c.l., works ..... lb. .35 - —
tanks, works ..... lb. .33 - —
Hexyl cinnamic aldehyde, dms. lb. 4.00 - 7.50
Salicylate, dms. ..... lb. 1.75 - —
Hexylene glycol, dms., c.l., dlvd lb. .16½ - —
l.c.l., dlvd. ..... lb. .17½ - —
tanks, dlvd ..... lb. .14 - —
α-Hexyl methacrylate, dms., less than truckload, works lb. .71 - —
Hexylresorcinol, USP, dms., 50-lb. lots or more, dlvd lb. 14.00 - —
smaller lots, dlvd ..... lb. 44.50 - —
Histamine diphosphate, USP, bots. kilo. 400.00 - —
l-Histidine hydrochloride, NF, fib. dms., 50-kilo lots, works. kilo. 80.00 -85.00
1-5 kilo lots, works ... kilo 90.00 -95.00
Homatropine hydrobromide, USP bots oz. 8.50 - —
Methylbromide, USP, bots oz. 5.65 - —
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago ..... unit-ton. 6.25 - —
Horehound herb, bls ..... lb 16 - .19
Hydrastine, bots ..... oz. 29.50 -31.00
Hydrochloride, NF, bots ..... oz. 29.50 -31.00
Hydrastis (see Goldenseal).
Hydrazine free base, ret. dms., Lake Charles, La lb. 3.00 - 3.30
85% ret dms., same basis lb 1.35 - 1.58
Hydrate, 100%, ret. dms., Lake Charles, La lb. 1.60 - 1.90
Hydrocortisone acetate, bulk, bots., dms gram. 4.50 - —
Alcohol, bulk, bots., dms gram. 4.50 - —
Hydrofuramide, dms., fib. ctns., works lb. .30 - .40
Hydrogen chloride, anhyd., 50-lb. cyls., c.l., works lb. .45 - —
l.c.l., works ..... lb. .55 - .60
Fluoride anhyd., cyls., dlvd. E. lb. .30½ - .32½
dlvd. W ..... lb. .39 - —
tanks, works ..... lb. .21 - —
Peroxide, USP, bbls., dlvd ..... lb. .03¾ - .05
35%, dms., c.l., dlvd ..... lb. .202 - —
l.c.l., dlvd ..... lb. .211 - —
tanks, dlvd ..... lb. .1800 - —
Hydroquinone, pnoto grade, bbls., dms lb. .98 - 1.00
tech., dms., c.l., dlvd ..... lb. .82½ - —
l.c.l., dlvd ..... lb. .84½ - —
Hydroxycitronellal, cns ..... lb. 7.65 - 7.90
Hyoscine salts (see Scopolamine).
Hyoscyamine, bots ..... oz. 13.50 - —
Hydrobromide, bots ..... oz. 6.00 - 7.00
Sulfate, bots ..... oz. 7.00 - 7.50
Hypernic extract, cryst., No. 2, bbls., l.c.l lb. .52 - —
liq., No. 1, bbls., l.c.l ..... lb. .35 - —
No 2, bbls., l.c.l ..... lb. .27 - —

I

Ichthammol, NF, jars ..... lb. .75 - 2.37
Indian red (see Red, Indian).
Indigo (see Dyes, coaltar, 1171 Indigo synthetic).
Indole, CP, bots ..... lb. 17.00 -21.00
Inositol, bots., dlvd ..... lb. 3.00 - —
dms., dlvd ..... lb. 4.50 - 4.75
Insect flowers (see Pyrethrum).
Iodine, crude, kgs ..... lb. 1.42 - —
resub., USP, dms., jars ..... lb. 2.30 - 2.32
Iodochlorohydroxyquinolin, USP, dms. lb. 5.90 - —
Iodoform, NF, dms., kgs ..... lb. 4.90 - 5.00
α-Ionone, cns ..... lb. 5.30 - 5.60
β-Ionone cs ..... lb. 6.00 - 7.75
Ipecac root, bgs., whole ..... lb. 7.50 - 8.00
powd., bbls., bxs ..... lb. 8.50 - 9.00
Irish moss, bleached, prime, bls lb. .28 - .34
Iron compounds (see Ferric or Ferrous).
Iron oxides (see under Black, Brown, Red, and Yellow).
Isoborneol, cns ..... lb. 1.25 - 1.70
Isobornyl acetate, cns ..... lb. .62 - .95
Formate, dms ..... lb. .80 - —
Propionate, dms ..... lb. 1.15 - 1.45
Isobutyl acetate, perfume grade, cns lb. .75 - 1.00
solvent grade, dms., c.l., dlvd. E. of Rockies lb. .14¼ - —
l.c.l., same basis ..... lb. .15¼ - —
tanks, same basis ..... lb. .11¾ - —
Isobutyraldehyde, CP, dms., c.l., dlvd lb. .27½ - —
l.c.l., dlvd ..... lb. .28½ - —
tech., dms., c.l., dlvd ..... lb. .21½ - —
l.c.l., dlvd ..... lb. .22½ - —
tanks dlvd ..... lb. .19½ - —
Isoeugenol, cns ..... lb. 4.40 - 4.75
Isoniazid, powd., bulk, 25-kilo lots or more kilo. 23.00 -25.50
smaller lots ..... kilo. 24.00 -26.00
Isopentane, coml. grade, tanks, f.o.b. Tex, refy gal. .15½ - —
Isonicotinic acid hydrazide (see Isoniazid).
Isophorone, dms., c.l., works ... lb. .24¼ - —
l.c.l. works ..... lb. .24¾ - —
tanks, works ..... lb. .22½ - —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., dlvd. lb. .13 - —
l.c.l., same basis ..... lb. .14 - —
tanks, same basis ..... lb. .10½ - —
Alcohol (see Alcohol, isopropyl).
Benzene (see Cumene).
Ether, dms., c.l., dlvd ..... lb. .07 - —
l.c.l., dlvd ..... lb. .08 - —
tanks, dlvd ..... lb. .05 - —
Isopropyl-N-(3-chlorophenyl) carbamate, (CIPC), 70% in xylol, dms., c.l., t.l., works lb. .70 - —
l.c.l., works ..... lb. .714 - .814
Isopropylamine (see Mono, Di, or Tri-).
Isopropyl-N-phenyl carbamate, 450-lb. fib. dms., c.l., t.l., works. lb. .75 - —
l.c.l., works ..... lb. .80 - .90
Isoquinoline, dms., works ..... lb. .65 - 1.25

J

Jalap root, NF, bls ..... lb. .45 - .55
powd., bbls., bxs ..... lb. .55 - .65
Juniper berries, bgs ..... lb. .18 - .20
Tar, NF, dms ..... lb. .42 - .60

K

Kaolin (see also Clay China).
NF, powd., fib. dms ..... lb. .10 - .12
colloidal, fib. dms ..... lb. .15½ - .17½
Kola nuts, bgs ..... lb. .15 - —

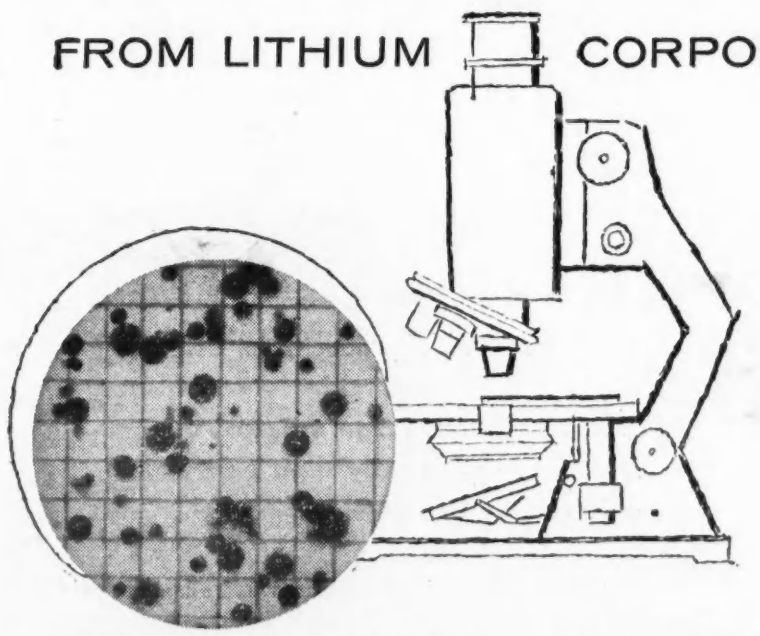
L

Lactose, edible, fib. dms., 30,000-lb. lots, works lb. .15 - .15½
2,000-lb. lots, works ..... lb. .15¾ - .16½
200-1,800-lb. lots, works .... lb. .16¾ - .17
Edible lactose in bgs. ½-lc. lower.
fermentation grade, bgs., c.l., works lb. .08½ - —
USP, fib. dms., 30,000-lb. lots, works lb. .21½ - —
2,000-lb. lots, works ..... lb. .22¼ - —
200-1,800-lb. lots, works .... lb. .22¾ - —
USP lactose in bgs. 1c. lower.
Lady's slipper root, bls ..... lb. 1.70 - 1.75
Lanolin, cosmetic, dms., works .. lb. .26 - .28
USP, anhyd., dms., works ..... lb. .24 - .26
hydrous, dms., works ..... lb. .23 - .25

ANNOUNCING A NEW

RESEARCH TOOL

FROM LITHIUM CORPORATION...



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Our successful development of dispersions of Lithium Metal offers industry still another research technique once considered impractical. Readily prepared, lithium dispersions prove more stable to air and moisture than the metal itself due to the coating of the dispersing medium.

In case you have a problem requiring the use of highly reactive Lithium Metal, Lithium Corporation's PR&D department is making available product data sheets describing the methods for laboratory preparation of these lithium metal dispersions in such dispersing mediums as mineral oil, petrolatum and wax. A request attached to your letterhead will bring you information on this new tool in lithium research.

.. *trends ahead in industrial applications for lithium*

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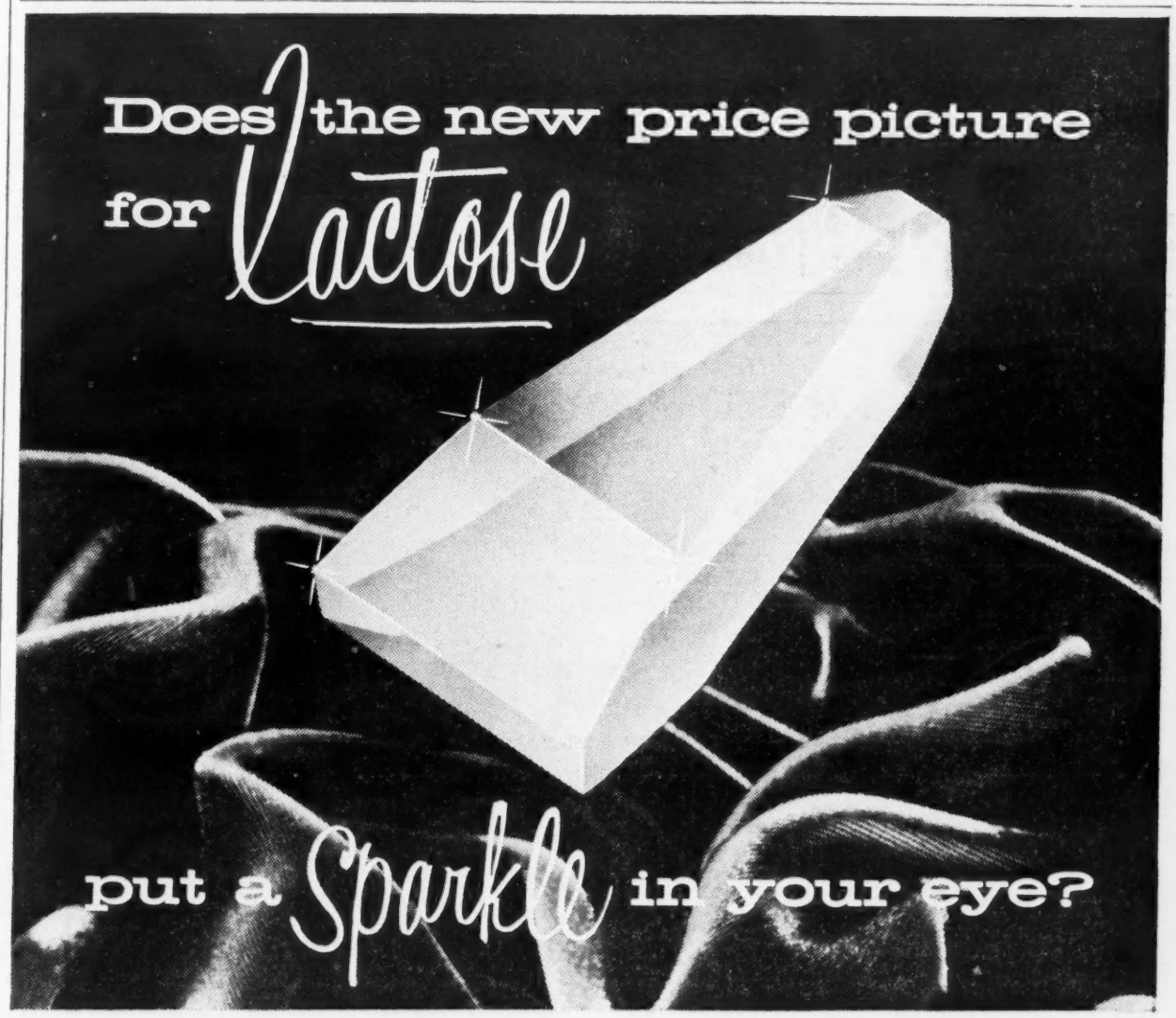
MINES: Keystone, Custer, Hill City, South Dakota • Bessemer City, North Carolina • Cat Lake, Manitoba • Amos Area, Quebec • BRANCH SALES OFFICES: New York Pittsburgh • Chicago • CHEMICAL PLANTS: St. Louis Park, Minnesota • Bessemer City, North Carolina • RESEARCH LABORATORY: St. Louis Park, Minnesota

Lard, cash, dms., Chicago.....lb. .11175- —
Larkspur seed, bgs.....lb. .20 - .33
Laurel leaves, Greek, bls.....lb. .12 - —
Portuguese, bls. .....lb. .11 - —
Turkish, bls. .....lb. .26 - .26½
Yugoslavian, bls.....lb. .11 - —
n-Lauryl methacrylate, dms., c.l. or t.l., works lb. .65½- —
Lavender flowers, medium, bls..lb. .75 - .80
ord., bls.....lb. .25 - .40
select., bls.....lb. .90 - —
Lead acetate, white, cryst., bbls..lb. .23½- —
gran., bbls.....lb. .24½- —
powd., bbls.....lb. .24½- —
NF, cryst., gran., powd.....lb. .32½- .33½
Arsenate, acid powder, dealers, 3-lb. bgs. or larger, c.l., frt. alld. on 96 lbs. or more lb. .27½- —
l.c.l., frt. alld.....lb. .28½- —
1-lb. bgs., c.l.....lb. .41½- —
l.c.l. .....lb. .42½- —
Blue, basic sulfate, bbls., c.l., shipt. point, frt. alld..lb. .17¼- —
l.c.l., same basis.....lb. .18¼- —
Carbonate (see Lead, white, basic carbonate).
Chloride, dms .....lb. .45 - —
Iodide, NF, V jars.....lb. 3.82 - —
Linoleate, fused, 26%% Pb, dms. lb. .33 - —
Metal pigs, prime, N. Y.....lb. .16 - —
St. Louis .....lb. .1580 - —
Metallic paste, dms., 20,000-40,000-lb. lots, works lb. .33¾- —
10,000-20,000-lb. lots, same basis lb. .34¾- —
200-2,000-lb. lots, same basis, lb. .35¾- —
Prices ex whse. Jersey City, N. J., 4½c. per lb. higher.
Monosilicate, bgs., c.l., works, frt. equald. lb. .20 - —
l.c.l., same basis.....lb. .2075- —
Naphthenate, liq., 16% Pb, dms., dlvd. lb. .17 - —
24% Pb., dms., dlvd .....lb. .21 - —
solid, 37% Pb., dms., dlvd....lb. .27½- —
Nitrate, bbls .....lb. .23¾- —
Orthosilicate-silica gel, 50-60% PbO, dms., works..lb. .29¾- .34¼
Peroxide, tech., powd., bbls...lb. .38¾- .40¼
Phthalate, dibasic, dms., works.lb. .41 - —
Red, 95% Pb_3O_4, or less, bbls., c.l., works, frt. alld..lb. .19 - —
l.c.l., same basis.....lb. .20 - —
97% Pb_3O_4, bbls., c.l., same basis, lb. .192 - —
l.c.l., same basis.....lb. .202 - —
98% Pb_3O_4, bbls., c.l., same basis, lb. .1935- —
l.c.l., same basis.....lb. .2035- —
Resinate, precip., 23% Pb, dms., dlvd lb. .32½- —
Salicylate, normal, dms., works, lb. .46 - —
Silicate (see Lead, white, basic, silicate).
Sulfate (see Lead, blue, basic sulfate, Lead white, basic sulfate).
Tallate, liq., 16% Pb, dms.....lb. .15 - —
24% Pb., dms.....lb. .18½- —
solid, 30% .....lb. .23¼- —
White, basic carbonate, bgs., c.l., shipt. point, frt. alld..lb. .19 - —
l.c.l., same basis .....lb. .20 - —
Silicate, bgs., c.l., shipt. point, frt. alld..lb. .17¼- —
l.c.l., same basis .....lb. .18¼- —
sulfate, bgs., c.l., shipt. point, frt. alld..lb. .17¼- —
l.c.l., same basis.....lb. .18¼- —
Lecithin, edible, tech., bleached, non-ret, dms., c.l., works..lb. .15 - .17
l.c.l., same basis .....lb. .15½- .17½
unbleached, non-ret. dms., c.l., same basis..lb. .13 - .15
l.c.l., same basis.....lb. .14½- .16½
Lemon bioflavinoid complex, 25-lb. lots, works..lb. 9.00 - —
dl-Leucine, dms., works .....lb 12.25 -15.00
Licorice root, whole, bbls.....lb. .10 - .12
gran., bbls.....lb. .15 - .17
powd., bbls.....lb .12 - .15
Lignosulfonate, 70% tannin, bgs., c.l., works..lb. .06½- —
l.c.l., works .....lb. .06¾- —
Lime, chemical (quicklime), bulk, c.l., metropolitan N. Y. destination, freight equalized with nearest producing point ton.18.71 - —
Hydrated, bulk, c.l., same basis. ton.20.21 - —
Spray, bgs., c.l., same basis..ton.23.21 - —
Lime salts (see Calcium).
Lime-ammonium nitrogen 20.5% N (see Ammonium nitrate with dolomite).
Limestone, grd., bgs., works. ton. 3.50 - 4.00
Linalool, ex bois de rose oil, dms. lb. 4.10 - 5.00
ex lignaloe wood oil, dms.....lb. 5.30 - 7.10
Linalyl acetate, ex bois de rose, 90-92%, dms..lb. 4.00 - 5.10
96-98%, dms .....lb. 6.75 - 7.15
ex petitgrain, bots. .....lb. 5.95 - 6.70
Lindane, 25% formulation, dealers, dms., frt. alld..lb. 1.00 - 1.09
99%, tech., formulators, dms., frt. alld..lb. 2.65 - 3.25
Linden flowers with leaves, bls lb. .30 - —
without leaves, bls .....lb. .35 - —
Linseed meal, expeller, 32-34% bulk, Midwest, mills..ton.60.50 - —
extracted, 36% bulk, same basis, ton.54.00 - —
Litharge, coml., powd., bbls., c.l., works, frt. equald..lb. .18 - —
l.c.l., same basis..lb. .19 - —
Lithium benzoate, dms.....lb. 1.65 - 1.67
Bromide, NF, dms., works, frt. equald..lb. 2.45 - —
Carbonate, NF, dms., c.l., t.l., dlvd. lb. 1.29½- —
ton lots to t.l., dlvd...lb. 1.30 - —
tech., dms., c.l., t.l., dlvd., frt. alld., works..lb. .82 - 1.10½
l.c.l., same basis .....lb. .85 - 1.11½
Chloride, CP, anhyd., ton lots..lb. 1.28½- —
tech., anhyd., dms., c.l., t.l., dlvd., or works, frt. alld. lb. 1.00 - 1.03
l.c.l., same basis.....lb. 1.05 - 1.05½
Citrate, NF, dms.....lb. 1.60 - 1.64
Fluoride, bbls., 10,000-lb. lots, dlvd..lb. 2.17½- —
ton lots, dlvd.....lb. 2.18½- —
less ton lots, dlvd.....lb. 2.23½- —
Hydride, powd., dms., 500-lb. lots, works..lb.10.50 -12.50
Hydroxide, monohydrate, dms., c.l., t.l., dlvd. or works, frt. alld..lb. .80 - .80½
l.c.l., same basis.....lb. .81 - .81½
Manganite, dms., works .....lb. .95 - 1.15
Nitrate, tech., dms., 100-lb. lots. lb. 1.25 - —
Salicylate, dms.....lb. 1.60 - 1.70
Silicate, dms., works.....lb. 1.10 - 1.30
Stearate, dms., c.l., works....lb. .47½- —
ton lots, works .....lb. .48½- —
less-ton lots, works.....lb. .53½- —
Sulfate, dms., 100-lb. lots.....lb. 1.15 - —
Titanate dms., works .....lb. 1.35 - 1.35
Lithopone ord., bgs., c.l., dlvd..lb. .07½- —
l.c.l., dlvd .....lb. .08¼- .08½
titanated (high-strength), bgs., c.l., dlvd..lb. .10 - —
l.c.l., dlvd .....lb. .11 - —
Lithopone prices, Pacific Coast, 1c. per lb. higher.
Lobelia herb, bls .....lb. 1.50 - —
Lobeline sulfate, bots., works...oz.37.50 -39.00

Logwood extract, cryst., No. 1, bbls., l.c.l..lb. .41 - —
No. 2, bbls., l.c.l.....lb. .39 - —
liq., No. 1, bbls., l.c.l.....lb. .20 - —
No. 2, bbls., l.c.l.....lb. .19 - —
No. 3, bbls., l.c.l.....lb. .18½- —
solid, No. 1, boxes, c.l.....lb. .35 - —
Lycopodium, cs.....lb. 1.20 - 2.00
dl-Lysine hydrochloride, bots. kilo.140.00 -150.00

M

Mace, Siauw, siftings, bls.....lb. 2.15 - 2.40
West Indian, No. 1, bls, shipment lb. 2.80 - 2.90
Magnesia, calcined, tech., bgs., ctns., works..lb. .25¼- .26
syn, rubber grade, light, bgs., c.l., works..lb. .29¼- —
Magnesia, syn., rubber grade, extra light, bgs., works. lb. .29¼- .30
l.c.l., works.....lb. .30 - —
USP, light, ctns.....lb. .35 - .36
heavy, bbls. .....lb. .45 - .52
Magnesite, chemical grade, calcined, powd., bgs., c.l., works, frt. equald ton.82.50 - —
dead-burnt, standard grain, bulk, c.l., Chawelah, Wash..ton.40.00 - —
Magnesium bromide, jars .....lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald lb. .10½- —
l.c.l., frt. equald..... lb. .12 - .13
Magnesium carbonate, tech., bgs., truckloads, frt. equald lb. .11 - —
USP, bgs., c.l., frt. equald lb. .12½- —
t.l., frt. equald..... lb. .13 - —
l.c.l. frt equald ..... lb .14 .15
Above prices are quoted f.o.b. works, freight equalized with metropolitan New York and competitive producing points
Chloride, anhyd., 92% flake or pebble, dms., c.l., works lb. .12¾- —
l.c.l., same basis lb .14 .15
hydrous, 99% flake, bgs., c.l., works ton.50.00 - —
l.c.l., works ..... ton.55.00 -105.00



from laboratory to production . . . milk sugar is finding hundreds of new uses

• There's a new look for lactose — a new competitive price tag that's a challenging invitation for re-evaluating this versatile sugar. That's why many firms, seeking a better product, are re-analyzing processes . . . using lactose for present ingredients (other sugars, etc.) and developing new uses for it. If you represent one of these forward-looking firms . . . or are interested in the possibilities of lactose . . . consult Western Condensing, America's largest supplier of high-quality milk derivatives.

Rigid laboratory testing and quality control in manufacture make Western's milk sugar a product you can depend upon. With Western's lactose, you'll be assured of top-quality, high-purity materials that meet or exceed accepted standards. Available grades: U. S. P., edible or crude, in a variety of screen sizes on regular or special order.

For detailed specifications, samples and price, write Western Condensing Company today, at Appleton, Wisconsin. Prompt delivery regularly assured from conveniently located shipping points, coast to coast.

FOREMOST lactose

WESTERN CONDENSING COMPANY

Appleton, Wisconsin

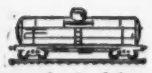
A WORLD-WIDE SUPPLIER OF HIGH-QUALITY MILK DERIVATIVES.

DISTRIBUTED BY

McKESSON & ROBBINS, INC.
CHEMICAL DEPARTMENT

Magnesium gluconate, dms., cns. lb. 1.34 - 1.41
Hydroxide, NF, medicinal, bbls., dms., kgs lb. .26½- .30
Metal, 99.8% ingots, 10,000 lb. lots or more, works lb. .34½- —
pigs, 10,000-lb. lots or more, works lb. .33¾- —
sticks, cs., works, frt. alld. on carlots lb. .56 - —
Nitrate, cryst., dms., works lb. .29 - —
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works lb. 1.00 - 1.05
Phosphate, tribasic, NF, bbls. lb. .75 - —
Silicate (see Talc).
Silicofluoride, dms., works lb. .10½- .12
Sulfate, tech., bgs., c.l., works 100 lbs. 2.15 - —
l.c.l., works 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works, 100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal 100 lbs. 3.10 - —
smaller lots 100 lbs. 3.35 - —
Trisilicate, USP, dms., 5,000-lb. lots lb. .38 - —
1,000-lb. lots lb. .40 - —
100-lb. lots lb. .45 - —
Bulky and super grades of magnesium trisilicate, 7c. per lb. higher.
Malathion, dms., c.l., works lb. .90 - —
l.c.l., works lb. .92 - 1.02
Maleic anhydride, dms., c.l., dlvd. E lb. .27 - —
l.c.l., dlvd. E lb. .28 - —
Maleic anhydride, tanks, dlvd. E lb. .26 - —
Prices on maleic anhydride W. of Rockies, 1½c. higher.
Mandrake root, bls. lb. .55 - .60
Manganese acetate, bbls., dlvd. lb. .35 - —
Arsenate, bgs. lb. .16 - —
Borate, tech., fib. dms. lb. .25 - —
Carbonate, bbls., works lb. .22 - —
Chloride, anhyd., dms., works lb. .25½- —
Dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, burlap paper lined, bgs., gross for net, works ton 102.00 - —
paper bgs., works ton 98.50 - —
dms., works ton 106.50 - —
Prices for manganese dioxide in 10,000 to 40,000-lb. lots $3 per ton higher.
Gluconate, dms. lb. 1.80 - 1.94
Hydrate, bbls., dlvd. lb. .36 - —
Hypophosphite, NF, dms. lb. 3.52 - —
Linoleate, liq., 4.35% Mp. dms. lb. .32½- —
solid, precip., 8.2% Mn. bbls. lb. .37½- —
Naphthenate, liq., 6% Mn., dms., frt. alld lb. .27 - —
Resinate, fused, 3½% Mn, dms. lb. .24 - —
precip., 6½-7% Mn, dms. lb. .28 - —
Sulfate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E. ton 80.50 - —
l.c.l., dlvd. S. E. ton 87.50 - —
Tallate, 6%, dms. lb. .24 - —
Mangrove bark, E. African, 38% tannin, c.l., ex dock ton 68.00 - —
So. American 30% tannin, c.l., tannin, c.l., ex dock ton 55.00 - 58.00
Mannitol, com'l, fib. dms., ton lots, works lb. .60 - —
dms. to ton lots, works lb. .62 - —
single dm., works lb. .68 - —
MBT (see 2-Mercaptobenzothiazole).
MBTS (see Mercaptobenzothiazyl disulfide).
Melamine, bgs., carlots, works lb. .30 - —
l.c.l., works lb. .31 - —
Menadione, USP, bots. gram. .044 - .05
Menthol, nat., USP, Brazilian, cs. lb. 6.30 - 6.40
syn., USP, racemic, cns. lb. 4.95 - —
Menthyl salicylate, tins lb. 4.00 - 4.25
2-Mercaptobenzothiazole, bgs., fib. dms., ton-lots, works, frt. alld. lb. .40 - —
less ton lots, same basis lb. .42 - —
Mercaptobenzothiazyl disulfide, bgs., fib. dms., ton-lots, works, frt. alld. lb. .50 - —
less ton lots, same basis lb. .52 - —
Mercuric chloride, NF, cryst., dms., 50-lb. lots or more lb. 4.98 - —
gran., or powd., dms., 50-lb. lots or more lb. 4.78 - —
Cyanide, NF VIII, powd., fib. dms. lb. 6.84 - —
Iodide, red, NF, fib. dms lb. 7.72 - —
Oxide, red, NF, powd., fib. dms lb. 5.97 - 6.01
yellow, tech. (see Yellow, mercury oxide).
USP, fib. dms. lb. 6.14 - —
Mercurous chloride (see Calomel).
Iodide, yellow, NF lb. 7.72 - —
Mercury, ammoniated (see White precipitate, USP).
Metal, 76 lb. per flask net-flask 238.00 - 260.00
Mesityl oxide, dms., c.l., dlvd. lb. .1350- —
l.c.l., dlvd. lb. .1450- —
tanks, dlvd. lb. .1150- —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Chloroaniline).
Metanitroaniline (see m-Nitroaniline).
Metanitroparatoluidine (see m-Nitro-p-toluidine).
Metaphenylenediamine (see m-Phenylenediamine).
Metatoluidine (see m-Toluidine).
Metatolylenediamine (see 2,4-tolylenediamine).
Methanol, nat., denaturing grade, tanks, frt. alld. gal. .75 - —
syn., Zone 1, dms., c.l., dlvd., or truckload min., frt. alld. gal. .45 - —
l.c.l., same basis gal. .51 - —
tankwagon, 2,000-4,000 gal. lots, dlvd. Metropolitan area gal. .33 - —
4,000 gal., min., frt. alld. or dlvd. gal. .30 - —
4,000 gal., min., works, Carteret, Camden, N. J gal. .27½- —
Zone 2, dms., c.l., or truckload min. frt. alld. or dlvd. gal. .48 - —
l.c.l., same basis gal. .54 - —
tankwagon, 2,000-4,000-gal. lots, min., dlvd. Metropolitan areas gal. .36 - —
tanks, 4,000 gal., min., frt. alld. or dlvd gal. .33 - —
Synthetic methanol zones are:—Zone 1 is all continental U. S. E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of U. S. west of above state boundaries comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
Methenamine (see Hexamethylenetetramine).
dl-Methionine, fib. dms., frt. alld. 50-lb. or more lb. 3.50 - —
feed grade, 98%, fib. dms., same basis lb. 2.65 - —
Methoxychlor, 50% wettable powder, dealers, dms., cs., frt. alld. lb. .61 - .64
Methyl abietate, non-ret. dms., c.l., dlvd. zone 1 lb. .20½- —
l.c.l., same basis lb. .21 - —
hydrogenated, non-ret. dms., c.l., dlvd. Zone 1 lb. .21 - —
l.c.l., same basis lb. .21¼- —
Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala, Ga., Fla., S. C. and Tenn.
Acetone, nat., dms., l.c.l., E. of Miss., frt. alld. gal. .62½- —
syn., dms., c.l., frt. alld. E. gal. .57 - —
l.c.l., frt. alld. E. gal. .63 - —
tanks, frt. alld E. gal. .45 - —
Synthetic methyl acetone E. territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory all states west of those four.
Acrylate, dms., c.l., t.l., dlvd. lb. .39 - —
l.c.l., dlvd. lb. .40 - —
tanks, dlvd. lb. .37 - —
Alcohol (see Methanol).
Amyl acetate, dms., c.l., dlvd. E. lb. .16 - —
l.c.l., dlvd. E. lb. .17 - —
tanks, dlvd. E. lb. .13½- —
Ketone, dms., works lb. 1.05 - —
Anthranilate, cns. lb. 2.50 - 2.65
Benzoate, cns., dms. lb. .53 - .65
Bromide, jobbers, cyls., various sizes, frt. alld. E lb. .47 - .61
Cellulose, special vis. (1,500-4,000 cps.) 50-lb. bgs., c.l., works, lb. .78 - —
2,000-lb. lots and more, same basis lb. .65 - —
smaller lots, frt. alld. on 100 lbs. lb. .89 - 1.00
standard vis., (15,400 cps.). 50-lb. bgs., c.l., frt. alld. lb. .66 - —
2,000-lb. lots and more, same basis lb. .72 - —
smaller lots, frt. alld. on 100 lbs. lb. .75 - .85
Chloride, indust., cyls., frt. equald. lb. .21 - —
tanks, multi-unit, same basis. lb. .15 - —
single unit, same basis lb. .11½- —
refrigerator mfrs., cyls., dlvd. lb. .46 - .48
other consumers or service men, cyls., dlvd. lb. .67 - —
Chloroform (see 1,1,1-trichloroethane).
Cinnamate, cns. lb. 1.43 - 1.80
Cyclohexanol, dms., c.l., works lb. .35½- —
l.c.l., works lb. .36 - —
tanks, works lb. .34 - —
Ethyl ketone, dms., c.l., dlvd. lb. .14 - —
l.c.l., dlvd. lb. .15 - —
tanks, dlvd. lb. .11½- —
Formate, refd., dms. lb. .35 - .40
tech., non-ret, dms., any quantity, works lb. .10 - —
Heptin carbonate, bots. lb. 33.00 - 42.00
p-Hydroxybenzoate, fib. dms. lb. 1.90 - 2.00
Ionone, standard, cns., dms. lb. 5.20 - 5.50
Isobutyl carbinol, dms., c.l., dlvd. lb. .16 - —
l.c.l., dlvd. lb. .17 - —
tanks, dlvd. lb. .13½- —
Ketone, dms., c.l., dlvd lb. .16 - —
l.c.l., dlvd. lb. .17 - —
tanks, dlvd. lb. .13½- —
Methacrylate, dms., c.l., t.l., frt. equald. with Belle, W. Va. lb. .31 - —
smaller lots, same basis lb. .31½- —
tanks, same basis lb. .29 - —
Naphthyl ketone, cryst., cns. lb. 3.00 - 4.30
Parahydroxybenzoate (see Methyl p-Hydroxybenzoate).
Roseaniline chloride, NF, fib. dms., 5-lb. lots lb. 5.64 - —
Salicylate, USP, cns., 500-lb. lots lb. .59 - —
Testosterone, USP, 100-gram bots. gram. .68 - —
3-Methylbenzylamine, dms., c.l., works lb. 1.25 - —
3-Methylbenzyl dimethylamine, dms., c.l., works lb. 1.80 - —
l.c.l., works lb. 1.90 - —
3-Methyl-5-ethyl pyridine dms., cs., works lb. .445 - —
l.c.l., works lb. .45 - —
tanks, works lb. .43 - —
Methylene blue, fib. dms., 100-lb. lots, frt. adjusted lb. 3.25 - 3.40
smaller lots, same basis lb. 3.40 - 3.55
Chloride, tech., dms., c.l., dlvd. E lb. .12¼- —
l.c.l., same basis lb. .15 - —
tanks, same basis lb. .11¼- —
b-Methylnaphthalene, 32°C. m.p., dms., works lb. .90 - —
Methylpentanediol (see Hexylene glycol).
Methylphenylpyrazolone (see 1-Phenyl-3-methylpyrazolone-5).
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint plastic, 100 mesh, bgs., c.l., works lb. .04 - —
roofing, 20 to 80 mesh, works lb. .03 - —
wet-grd., biotite, bgs., c.l., works, frt. alld. E lb. .06¼- —
l.c.l., ex-whse. lb. .07¼- —
paint or lacq., bgs., c.l., 325 mesh, works, frt. alld. E lb. .06¼- —
l.c.l., ex-whse. or frt. alld. E lb. .09 - —
rubber, bgs., c.l., works, frt. alld. E lb. .06 - —
l.c.l., ex-whse. or frt. alld. E lb. .06¼- —
wallpaper, bgs., c.l., works, frt. alld., E lb. .06¼- —
l.c.l., ex-whse. or frt. alld. E lb. .09 - —
white, 5-10 microns, bgs., c.l., works, frt. alld. E lb. .06¼- —
l.c.l., ex-whse. or frt. alld. E lb. .09 - —
Mica, wet-grd. W. of Miss. ½c. higher; W. of Rockies, 1c. higher.

Low Cost Route to Many Products
ROHM & HAAS METHYLAMINES



As low cost sources of basic organic nitrogen, Rohm & Haas methylamines are logical intermediates in dozens of reactions. That's why they're so widely used in products of all descriptions: rubber-vulcanization accelerators, pesticides, surface-active agents, photographic developers, dyestuffs, pharmaceuticals, and quaternary disinfectants among others.

With Rohm & Haas methylamines, you also gain other important advantages:

- *Continuing Availability*—through large volume production in two separate plants.
- *High Quality*—the result of over 20 years' experience in producing amines.
- *The Right Amine*—mono-, di-, or trimethylamine; aqueous or anhydrous form; in drums, cylinders or tankcars.

Write today to Department SP for complete data.

Chemicals for Industry
ROHM & HAAS COMPANY
WASHINGTON SQUARE, PHILADELPHIA 5, PA.
Representatives in principal foreign countries

Mineral spirits (see Petroleum mineral spirits).
Molasses, blackstrap feed grade, tanks, New Orleans..gal. .13 - .13½
New York.....gal. .16 - —
Molybdenum (metal), powd., 80 or 200 mesh, ctns., works..kilo. 7.84 - —
325 mesh, ctns., works....kilo. 9.13 - —
Trioxide, pure, dms., works...lb. 1.10 - —
tech., dms., works, basis Mo. content....lb. 1.31 - —
Monobutylamine, dms., c.l., E. of Rockies lb. .55 - —
t.c.l., same basis lb. .56 - —
tanks, same basis lb. 53 - —
Monochlorobenzene, dms., c.l., frt. alld. or dlvd. E lb. .10 - —
t.c.l., same basis lb. .11 - —
tanks, same basis lb. .08½ - —
Monoethanolamine, dms., c.l., dlvd. E lb. .27 - —
t.c.l. same basis lb. .28 - —
tanks same basis lb. .25 - —
Monoethylalphanaphthylamine (see N-Ethyl-a-naphthylamine).
Monoethylamine, 70% contained amine, dms., c.l., dlvd. E lb. .35 - —
t.c.l., dlvd. E lb. .36 - —
tanks, dlvd. E lb. .33 - —
Monoethylaniline (see N-Ethylaniline).
Monoethylorthotoluidin (see N-Ethyl-o-toluidine).
Monoisopropanolamine, dms., c.l., dlvd. E lb. .27 - —
t.c.l., same basis lb. .28 - —
tanks, same basis lb. .25 - —
Monoisopropylamine, dms., c.l., dlvd. lb. .32 - —
t.c.l., same basis lb. .33 - —
tanks, same basis lb. .30 - —
Monomethylamine, 30-35% soln., dms., c.l., frt. equald, 100% basis. lb. .40 - —
t.c.l., frt. equald 100% basis. lb. .40½ - —
tanks, frt. equald 100% basis. lb. .31 - —
40% soln., dms., c.l., frt. equald, 100% basis lb. .37 - —
t.c.l., frt. equald, 100% basis. lb. .37½ - —
tanks, frt. equald, 100% basis. lb. .31 - —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Mono-tertiary-butylmetacresol (see 6-tert-Butyl-m cresol)
Glutamate (see Sodium glutamate monobasic).
Phosphate (see Sodium phosphate monobasic).
Morphine, cns.....oz. 12.40 -12.60
Acetate, anhyd., cns.....oz. 9.95 -10.00
Hydrobromide, cns.....oz. 9.90 - 9.95
Hydrochloride, NF, cns.....oz. 9.90 - 9.95
Sulfate, USP, cns.....oz. 9.90 -10.05
Morpholine, dms., c.l., dlvd. E lb. .54¾ - —
t.c.l. dlvd. E lb. .55¾ - —
tanks, dlvd. E lb. .52¾ - —
Musk, syn., ambrette, 100-lb. tots, fib. dms. lb. 5.15 - —
25-lb tots, cns lb. 5.20 - —
5-lb. tots, cns lb. 5.30 - —
ketone, 100-lb. lots, fib. dms. lb. 5.30 - —
25-lb tots cns lb. 5.35 - —
5-lb. tots, cns lb. 5.45 - —
xylol, 100-lb. lots, fib. dms. lb. 1.40 - —
25-lb tots, cns lb. 1.45 - —
5 lb tots, cns lb. 1.50 - —
Mustard seed, Danish, yellow, bgs lb. .10½ - —
Dutch, bgs. lb. .10½ - —
English, yellow, bgs. lb. .10½ - —
Montana, oriental, bgs. lb. .09 - —
Myrobalans, J-1, assorted, bgs., ex dock..ton. 64.00 -65.00
crushed, bgs., ex dock.....ton. 79.00 -80.00
Bombay, bgs., ex dock.....ton. 63.00 -64.00
bgs., ex dock, plus duty..lb. .10 - .10¼

N

Naphtha, painters (see Petroleum naphtha V. M. & P.).
Solvent (see S)
Naphthalene, crude, dom., 74°, tanks, frt. equald lb. .06¼ - —
78°, bgs., c.l., same basis lb. .07½ - .08
t.c.l., same basis.....lb. .07¾ - .08¼
tanks, same basis.....lb. .07 —
imp., 78° large lots.....lb. .07 Nom.
refd., indust., chipped or crushed, bgs., frt. equald lb. .12½ - —
tanks, same basis lb. .11¾ - —
balls, flakes, wholesalers, jobbers, bbls., c.l., same basis. lb. .15½ - —
cs., 50 lbs., c.l., same basis lb. .15¾ - —
1-lb. pkgs., c.l., same basis. lb. .18½ - —
a-Naphthol, bbls., frt. alld .... lb. 1.00 - —
b-Naphthol, tech., flake, bbls., c.l., works lb. .33 - —
t.c.l., works.....lb. .35 - —
Benzoate, fib dms., works.....lb. 3.00 - —
custom contract, works....lb. 1.65 - —
Salicylate, dms.....lb. 5.00 - —
Sulfate, cns.....lb. 35.00 - —
a-Naphthylamine, bbls., frt. alld lb .50 - —
b-Naphthylamine, tech., flake, bbls., works lb. 1.60 - —
Neocinchophen, USP, dms., frt. adjusted. lb. 7.00 - 8.00
Neomycin, fib. dms., 1 kilo lots, basis, activity..gram. .45 - —
500-999 gram lots, basis, activity..gram. .50 - —
Nerolin, cns.....lb. 2.15 - 2.65
Niacin (see Acid nicotinic).
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., dlvd.....lb. .77 - .90½
Carbonate bbls., dlvd.....lb. .73¾ - .81¾
Chloride, bbls., dlvd.....lb. .38½ - .46½
Formate, bbls., ton lots, frt. alld..lb. .68 - .69
Metal, electro cathodes, cs., works..lb. .64½ - —
Nitrate, bbls., works.....lb. .37 - .38
Oxide, black, bbls.....lb. .76 - —
green, bbls.....lb. .76 - —
Sulfate, bgs., c.l., dlvd.....lb. .30¼ - —
t.c.l., dlvd.....lb. .31¼ - .38¼
Nicotinamide, USP, dms., frt. adjusted..kilo. 12.00 -12.30
Hydrochloride, dms., frt. adjusted. kilo. 11.50 -11.80
Nicotine sulfate, 40%, dealers, 50-lb. dms., frt. alld.....lb. 1.20 - —
manufacturers, 500-lb. dms., frt. alld..lb. 1.05 - —
Niger seed, bgs.....lb. .11 - .11½
Nikethamide, cbys.....lb. 7.50 - —
m-Nitroaniline, cryst., dms., frt. alld. lb. 1.15 - —
paste, 100% basis, dms., frt. alld. lb. 1.10 - —
o-Nitroaniline, flaked, dms., t.l., frt. alld..lb. .49 - —
t.t.l., frt. alld.....lb. .51 - —
p-Nitroaniline, dms., frt. alld...lb. .445 - —
Nitrobenzene, dbl. dist., dms., c.l., frt. alld..lb. .12 - —
t.c.l., frt. alld. .....lb. .13 - —
tanks, frt. alld. .....lb. .11 - —

Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works..lb. .34 - —
t.c.l., same basis.....lb. .35 - .37
18-25 cps., bbls., c.l., same basis..lb. .36 - —
t.c.l., same basis.....lb. .37 - .39
250-400, 600-1,000 secs., bbls., c.l., same basis..lb. .39 - —
t.c.l., same basis lb. .40 - .42
spirit-soluble, 30-35 cps., ¼, ½, secs., bbls., c.l., same basis. lb. .41 - —
t.c.l., same basis.....lb. .42 - .44
5-6 cps., 40-60 secs, bbls., c.l., same basis..lb. .40 - —
t.c.l., same basis.....lb. .41 - .43
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.
o-Nitrochlorobenzene, dms. c.l., frt. alld..lb. .15 - —
t.c.l., same basis.....lb. .16 - —
tanks, same basis.....lb. .13 - —
p-Nitrochlorobenzene, dms.....lb. .26 - .27
2-Nitro-4-chlorophenol, dms.....lb. .75 - —
Nitroethane, dms., c.l., dlvd. E lb. .24 - —
t.c.l., dlvd. E.....lb. .24¾ - —
tanks, dlvd. E.....lb. .22½ - —
Prices West of Rockies are 1c. higher.
Nitrogen solutions, c.l., frt. equald, unit-ton. 1.28 - —
Nitrogenous process tankage, bulk, works unit-ton. 3.00 - 4.00
Sewage sludge, bulk, works, unit-ton. 2.95 + .50
Nitromethane, dms., c.l., dlvd. E. lb. .24 - —
t.c.l., dlvd. E.....lb. .24¾ - —
tanks, dlvd. E.....lb. .22½ - —
Prices West of Rockies are 1c. higher.

a-Nitronaphthalene, bbls., frt. alld. lb. .41 - —
Nitropropane-1, and -2, dms., c.l., dlvd. E..lb. .22¼ - —
t.c.l., dlvd. E.....lb. .23¼ - —
tanks, dlvd. E.....lb. .21 - —
Prices West of Rockies are 1c. higher.
o-Nitrophenol, dms., works, frt. equald lb. .94 - —
p-Nitrophenol, dms., frt. alld., c.l. lb. .50 - .51
t.c.l. .....lb. .50 - .53
o-Nitrotoluene, dms., c.l., frt. alld.lb. .10 - —
t.c.l., frt. alld.....lb. .11 - —
tanks, frt. alld.....lb. .09 - —
p-Nitrotoluene, dms., works.....lb. .33 - —
m-Nitro-p-toluidine, dms.....lb. 1.59 - —
Nitrous ether, conc., bots 100-lb. lots lb. 1.28 - 1.35
Nonyl phenol, dms., c.l., frt. alld. lb. .26 - —
t.c.l., frt. alld.....lb. .27 - —
tanks, frt. alld.....lb. .24 - —
Nutgalls, Aleppo, bgs.....lb. .36 - .38
Chinese, bgs. .....lb. No orices.
Nutmeg, East Indian, bgs.....lb. .65 - —
West Indian, bgs.....lb. .67 - —
Nux vomica, bls.....lb. .10 - .12
powd., bbls., bxs.....lb. .15 - .17

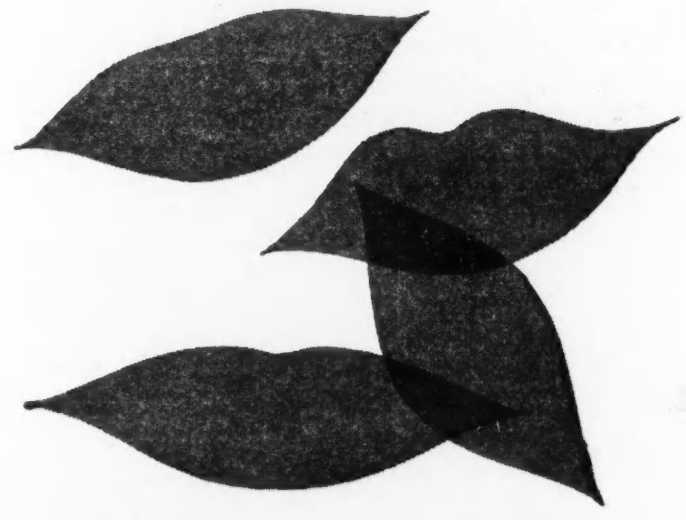
O

Octane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex.....gal. .15¾ - —
Borger, Tex.....gal. .15¾ - —

1-Octanol, tech., dms., c.l., dlvd. lb. .35 - —
t.c.l., dlvd.....lb. .37 - —
tanks, dlvd lb. .32½ - —
Octyl phenol, bgs., c.l., works..lb. .23¼ - —
t.c.l., works.....lb. .23¾ - —
tanks, works.....lb. .22½ - —
Drum prices for octyl phenol are 11c. higher

(Essential oils prices listed below are f.o.b. New York, with differences between high and low quotations due to differences in quantity, quality or in individual suppliers' views.)

Oil, abies, siberica, cns lb 3.00 3.50
Almond, artif., bitter (see Benzaldehyde)
nat., bitter, F.P.A., bots lb 3.00 3.75
NF, bots. lb 3.25 3.75
sweet, USP, dms., cns..... lb. 1.25 - —
Allspice (see Oil, pimento),
Amyris, dms. ..... lb 1.25 - —
Angelica root, bots.....lb. 66.00 -100.00
seed, bots ..... lb 56.00 95.00
Aniline (see A).
Anise, USP, dms ..... lb. 3.50 - 4.00
Apricot, kernel, USP, dms ... lb. .48 - .55
Avocado, cns lb. 3.25 —
Bay, NF, Puerto Rican, 50-55%, cns lb. 2.15 - 2.75
55-60%, cns. lb 2.10 2.50
West Indian 50-55%, cns. dms lb 1.85 2.40
Bergamot, nat., NF, Italian, cns. lb 8.50 -11.00
Birchtar, crude, cns..... lb 1.50 - 1.90
rectified, NF, cns ..... lb 1.75 - —



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Oil, bois de rose, Brazil, dms lb. 3.00 - 3.75
Mexican (see Oil, lignaloe wood).
Bone, dms., works lb. .65 - .70
Cajeput, native, cns lb. 1.75 - 3.30
redist., USP, cns lb. 2.25 - 3.40
Calamus, bots lb 12.00 -20.00
Camphor, sassafrassy, dms lb. .30 - .45
white, dms lb. .29 - —
Cananga, native, cns lb. 8.75 - —
rectified, cns lb.10.00 -13.00
Caraway, NF, cns lb. 3.35 - 5.00
Capsicum (see Capsicum oleoresen).
Cardamom, NF, bots lb.35.00 - —
Cassia, USP (see Oil, cinnamon, USP).
Castor, blown, dms., c.l lb. .2500- —
l.c.l. lb. .2600- —
dehydrated, bodied, dms., c.l lb. .2610- —
l.c.l. lb. .2710- —
tanks lb. .2410- —
unbodied, dms., c.l. lb. .2460- —
l.c.l. lb. .2560- —
tanks lb. .2260- —
hydrogenated, bgs., c.l., dlvd lb. .25¾- —
l.c.l., dlvd. lb. .31¾- —
No. 3, tech., dms., c.l. lb. .19¼- —
l.c.l. lb. .20¼- —
tanks lb. .17¼- —
No. 1, Brazilian, tanks lb. .18½- —
USP, dms., c.l. lb. — - —
l.c.l. lb. .2150- —
tanks lb. .1950- —
refd. and deodorized, dms., c.l lb. — - —
l.c.l. lb. .28½- —
tanks lb. — - —
sulfonated, 50%, dms., works. lb. .13½- .14½
75%, dms., works lb. .17½- .18¼

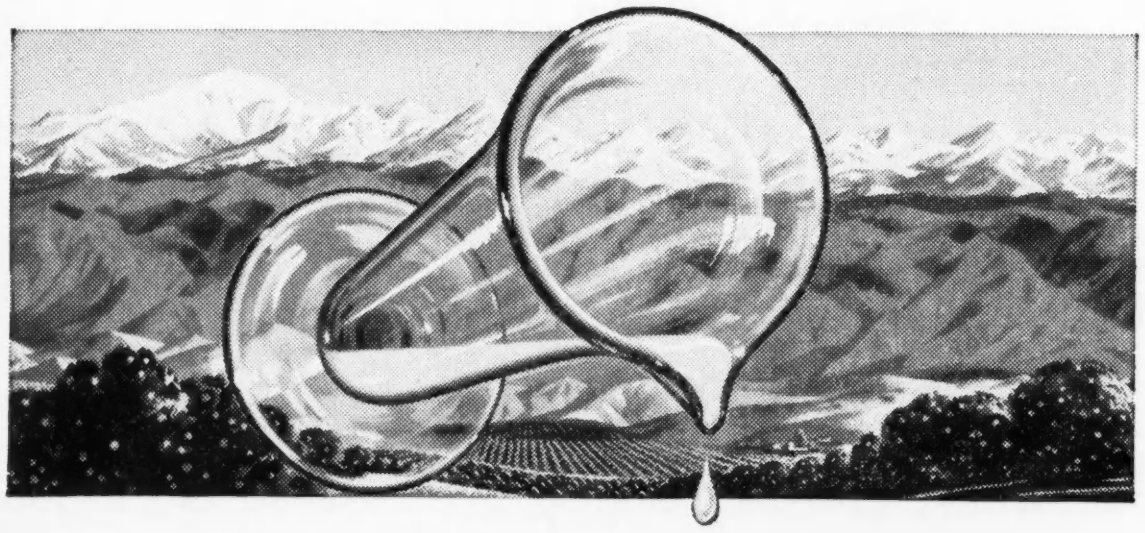
Oil, cedarleaf, USP, XIII, cns., dms. lb. 3.50 - 3.90
Cedarwood, cns., dms lb. .65 - 1.00
Celery seed, bots lb.12.50 -20.00
Chamomile, blue, Hungarian, bots. lb.90.00 -180.00
Chenopodium, NF, cns lb. 3.65 - 4.05
Chinawood (see Oil, tung).
Cinnamon, bark, bots lb.25.00 -70.00
leaf, crude, dms lb. 1.70 - 2.00
USP, cns., dms. (Cassia) lb.10.25 -10.90
Citronella, Ceylon, cns., dms lb. .95 - —
Java, cns. lb. 1.95 - —
Java-type, cns lb. 2.00 - —
Clove, bud, USP, cns., dms lb. 2.35 - —
leaf, crude, dms lb. 1.20 - 1.50
Coconut, crude, tanks, N. Y. lb. .12¼- —
Pac. Coast lb. .10¾- —
refd., Cochin type, dms., tax incl., lb. .20½- .21½
deodorized, tax incl., dms lb. .22 - .23
Cod, Newfoundland, dms lb. .12 Nom.
Codliver, USP, dms gal. 1.45 - 1.55
Copaiba, cns lb. 1.75 - 2.50
Coriander, USP, bots lb 13.00 -15.00
Corn, crude, tanks, works lb. .14¼- —
foots (soapstock), acid 95%, tanks, N. Y. lb. .06½- —
refd., salad, dms. lb. .20½- .20¾
tanks lb. .1809- —
Costus, bots oz. 8.00 - —
Cottonseed, crude, tanks, South East lb. .14½- —
Valley lb. .14½- —
Texas lb. .14 - —
foots (soapstock), acid 95%, tanks, N. Y lb. .04¾- —

Oil, cottonseed, refd., salad, dms lb. .19¾- —
tanks lb. .17¾- —
Creosote (see Creosote, coaltar).
Cubeb, cns. lb. 4.10 - 4.25
Cumin, bots., cns lb. 5.00 - 5.75
Cypress, bots. lb. 5.30 - —
Degras (see D).
Dillweed, dom., bots., dms lb. 3.60 - 4.25
Dillweed, dom., bots., dms lb. 3.60 - —
Dip (see D)
Erigeron, cns lb. 5.50 - 7.50
Eucalyptus, NF, rectified, 70-80%, dms lb. .62 - —
80-90%, dms. lb. .72 - —
Fennel, sweet, USP, cns lb. 2.80 - —
Fir, canada, cns lb. 2.75 - 3.25
Fish, refd., alkali, dms lb. .1500- .1550
kettle-bodied, dms lb. .1730- .1780
light-pressed, dms lb. .1350- .1400
tanks lb. .1200- —
Fishliver, crude, for feeds or concentrating 4,000 to 12,000 A units per gram, dms., 1,000,000 units. .08 - .09
10,000 to 20,000 A units per gram, dms., 1,000,000 units. .09 - .10
25,000 to 35,000 A units per gram, dms., 1,000,000 units. .09 - .10
40,000 to 55,000 A units per gram, dms., 1,000,000 units. .10½- .11
100,000 A units per gram., dms 1,000,000 units. .14 - —
200,000 A units per gram., dms 1,000,000 units. .15½- —
500,000 A units per gram., dms 1,000,000 units. .16 - —

Prices above are based on the USP XIV method of conversion, Morton Stubbs Corrected E x 1900.

Fusel (see F).
Garlic, pure, bots oz. 4.75 - 9.50

Oil, gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns lb.12.75 -15.00
Bourbon, cns lb.13.50 -15.00
Turkish (see Oil palmarosa).
Ginger, dist., bots lb.18.50 -19.50
Grapefruit, dms lb. 1.70 - 3.25
Grease, No. 1, dms., c.l lb. .15¼- —
dms., l.c.l. lb. .16¼- .18¼
extra, winter, strained, dms. lb. .17¼- —
dms., l.c.l. lb. .18¼- .20¼
prime, burning, dms lb. .18¾- —
dms., l.c.l. lb. .19¾- .21¼
Guaiacwood, cns. lb. 1.65 - 1.90
Hemlock, cns. lb. 2.10 - 2.50
Juniper berry, NF, VIII, bots lb. 2.75 - 4.00
twice rectified, bots lb. 3.60 - 7.00
Tar, NF (see Juniper tar).
Wood, tech., cns. lb. .38 - .55
Lard (see Oil, grease).
Laurel leaf, dms., cns lb. 9.75 -12.50
Lavandin, dms., cns lb. 2.55 - 2.85
Lavender, flower, USP, French 35-37% ester, cns lb. 2.85 - 4.60
38-40% ester, cns lb. 9.25 -10.00
40-42% ester, cns lb.10.00 -14.00
spike, Spanish, cns lb. 1.85 - 2.30
Lemon, USP, Calif., cns., dms. lb. 4.50 - 5.00
Messina, cns lb. 5.50 - —
terpeneless, bots. lb.50.00 -85.00
Lemongrass, cns., dms lb. 2.25 - —
Lignaloe wood, Mex., cns lb. 4.65 - —
Lime, dist., Mexican, cns lb. 3.75 - —
West Indian, cs lb. 3.75 - —
expressed, West Indian, cns lb. 6.00 - 8.00
terpeneless, bots. lb.29.50 -100.00
Linseed, raw, dms., c.l., N. Y. lb. .1690- —
l.c.l. lb. .1790- .1840
tanks (f.o.b. Minneapolis) lb. .1360- —
New York lb. .1490- —
tankwagon, New York lb. .1530- .1540
Boiled linseed oil, .006c. per lb. higher.
Mace, dist., cns., dms lb. 4.75 - —
Mandarin (see Oil, tangerine).
Menhaden, crude, new crop, tanks, works, Atlantic & Gulf. lb. .08⅝- —
Mineral, white (see Oil, white mineral).
Mirbane (see Nitrobenzene).
Mustard seed, nat., dms. lb. .17½- —
syn., bots lb. 1.60 - 1.85
Neatsfoot, 15° cold test, dms lb. .30 - .33
20° cold test, dms lb. .29 - .32
30° cold test, dms lb. .28 - .31
Neroli, NF, French, bots lb.450.00 - —
Spanish, bots lb.32.50 -75.00
Nutmeg, USP, dist., East Indian, cns., dms lb. 4.65 - 5.25
West Indian, cns., dms lb. 4.90 - 5.25
Ocotea cymbarum, dms lb. .50 - .60
Oiticica, liq., dms. lb. .16¾- .17¼
tanks lb. .15¼- —
Oleo, extra, dms lb. .18 - .18½
Olibanum, bots lb. 5.50 - 7.65
extra fine, bots lb. 8.00 - 9.00
Olive, edible, Spanish, dms., duty paid gal. 3.60 - 3.75
Orange, sweet, dist., cns. lb. .45 - .60
expressed, USP, Brazilian, cns., dms lb. No stocks.
Calif., cns., dms lb. .60 - 1.25
Florida, cns., dms lb. .45 - .50
Messina, cns. lb. 3.85 - 5.85
West Indian, cns., dms lb. 2.50 - 3.65
sesquiterpeneless, bots. lb.65.00 -120.00
Origanum, Spanish, cns lb. 2.00 - —
Palm, clarif., dms lb. .1600- .1700
Palmarosa, cns lb. 8.25 -10.00
Paraffin, pale, 100-110 vis., at 100°F. tanks, East Coast refy gal. .14 - —
Patchouli, dms. lb. 6.50 - 8.75
Peach kernel, USP (see Oil apricot kernel).
Peanut, crude, tanks, f.o.b. mills. lb. .14⅜- —
refd., dms. lb. .20¼- .20⅝
tanks lb. .17½- —
Pennyroyal, USP, imported, cns. lb. 2.75 - 3.50
Peppermint, nat., dms lb. 5.75 - —
redist., USP, dms lb. 5.65 - 8.50
Persic, USP (see Oil, apricot kernel).
Petitgrain, South American, cns., dms lb. 3.35 - 3.50
Pimento, berry, NF, dms lb. 4.50 - 5.00
leaf, cns lb. 2.10 - 3.10
Pine, dest.-dist., dms., l.c.l., works. lb. .12¼- —
ex-whse. lb. .14¼- —
steam-dist.,, dms., ex whse. N.Y.C lb. .163 - —
Pineneedle, Siberian (see Oil, abies siberica).
Rapeseed, tankcars lb. .21 Nom.
Red (see Acid, oleic).
Rice, bran, clarif., dms., l.c.l. lb. .18 Nom.
tanks, dlvd. E lb. .16 Nom.
Rose, nat., Bulgarian, bots oz.43.00 -57.00
Rosemary, Spanish, USP, cns., dms lb. .60 - 1.00
tech., cns., dms lb. .50 - .70
Rue, bots. lb. 2.00 - 2.50
Safflower, dms., c.l., Atl. coast. lb. .18⅜- —
tanks, same basis lb. .16⅜- —
Sage, clary, bots lb.18.75 -19.00
Dalmatian, cns lb. 4.10 - 4.50
Spanish, cns. lb. 1.20 - 1.45
Sandalwood, NF, cns lb.13.35 -14.25
Sardine, crude, tanks, Pac. coast. lb. .08½- .09
Sassafras, artif., dms. lb. .49 - .60
nat., dom., USP, dms lb. 1.45 - 2.10
imp., Brazilian (see Oil ocotea cymbarum).
Savin, cns lb. 2.75 - —
Savory, cns. lb. 4.25 - —
Sesame, refd., dms lb. .38 - .39
Shingle stain, tar distillate, dms., c.l., works gal. .35 - —
l.c.l., works gal. .44 - —
tanks, works gal. .23 - —
Snakeroot, Canada, cns lb.27.50 -31.00
Soybean, crude, tanks, Decatur. lb. .13⅜- —
foots soapstock, acid, 95% tanks, N. Y. lb. .07¾- —
refd., alkali, dms lb. .18½- .18⅝
tanks lb. .16½- —
clarified, dms. lb. .17⅝- .18
tanks lb. .15⅝- —
salad, dms. lb. .1847- —
tanks lb. .1647- —
Spearmint, USP, dms lb. 4.60 - 5.60
Sperm, bleached winter, 45° dms. lb. .1675- .1725
tankcars lb. .1500- —
nat., winter, 45°, dms lb. .1575- .1625
tankcars lb. .1400- —
Spruce, cns., dms lb. 2.10 - 2.75
Sweet birch, USP, Northern, cns. lb. 4.25 - 9.50
Southern, cns lb. 2.50 - 3.00
Tall, crude, dms., c.l., works lb. .03¾- .04¼
tanks, works lb. .02½- —
dist., dms., c.l., works lb. .07½- —
l.c.l., works lb. .07¾- —
tanks, works lb. .06¼- —
refd., dms., c.l., works lb. .06½- .06¾
l.c.l., works lb. .06¾- .07¼
tanks, works lb. .05¼- .05¾
Tallow, acidless, dms., c.l. lb. .13½- —
dms., l.c.l. lb. .14½- .16
Tangerine, Floridian, dms lb. 2.00 - 2.80
Tansy, dms lb. 7.50 - 8.40
Tar acid (see T's).
Pine, coml., dms., c.l., works lb. .0561- —
l.c.l., works lb. .0634- —
whse lb. .0745- —
tanks, works lb. .046 - —



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When something so important costs so little, doesn't it make good sense to buy the best? And the best Oil of Lemon is Exchange Brand, made only from *California and Arizona* lemons—grown and skillfully processed by the Sunkist Growers, the people who know citrus best.

Be sure you don't get adulterated, watered-down lemon flavor.

Ask your supplier to insist on Exchange Brand Oil of Lemon, the *4-to-1 favorite* over all other lemon oils *combined.*

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Oil, tar acid, rectified, NF, dms., incl., l.c.l., works, South..gal. 1.05 - —
ex whse., N. Y. C gal. 1.15 - —
refined, dms., works, l.c.l., incl.. gal. .92 - —
N. Y. whse., l.c.l.. gal. 1.02 - —
Theobroma (see Cocoa butter).
Thyme, NF, red, cns., dms....lb. 1.80 - 2.00
white, cns .....lb. 1.95 - 4.00
tech., white, cns .....lb. .40 1.85
Tung, dms., c.l., N. Y. .....lb. .26¼- —
l.c.l., same basis.....lb. .27 - —
tanks, N. Y. .....lb. .24¾- —
domestic mills .....lb. .23¼ Nom.
Turkey red (see Oil, castor, sulfonated).
Turpentine, NF cns., dms. ..lb .38 45
Vetiver, Bourbon, cns.....lb.12.50 -15.75
Haitian, cns. .....lb. 9.80 -11.75
Java, cns .....lb.18.50 -20.00
Wheat, germ, 5-gal. dms .....gal.11.20 - —
White, mineral, tech., 50-65 vis., non-ret. dms. c.l., t.o.b. N. Y..gal. .55 - —
65-75 vis., non-ret., dms. c.l., same basis..gal. .56 - —
l.c.l., same basis gal. .61 - —
80 90 vis., non-ret., dms., c.l., same basis..gal. .57 - —
l.c.l., same basis gal. .62 - —
135-138 vis., non-ret. dms., c.l., same basis gal. .63 - —
l.c.l., same basis gal. .68 - —
145-155 vis., non-ret. dms., c.l., same basis gal. .69½- —
l.c.l., same basis gal. .74½- —
USP, 180-190 vis., non-ret. dms., c.l., same basis gal. .71 - —
l.c.l., same basis gal. .76 - —
200-210 vs., non-ret. dms., c.l., same basis gal. .75 - —
l.c.l., same basis gal....79 - —
345-355 vis., non-ret. dms., c.l., same basis gal. .78½- —
l.c.l., same basis gal. .84½- —
Wintergreen, USP, nat., Northern, cns. lb. 6.35 -10.30
Southern cns lb 3.20 -19.50
syn. (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed (see Oil, Chenopodium, NF).
Wormwood, cns. ..lb. 5.00 - 6.85
Ylang-ylang, Bourbon, bots....lb.17.00 -30.00
extra, bots .....lb.28.00 -40.00
Madagascar, bots.....lb No stocks
Oleostearine, bbls. .....lb. .13½- .14
Opium, USP, cns.....oz.19.20 -19.45
gran., USP, cns.....oz.21.65 -21.90
powd., USP, cns.....oz.21.65 -21.90
Orange cadmium-selenide lithopone, light shade, bbls., frt. alld. E. of Rockies lb. 1.80 - —
Deep shade, bbls.....lb. 2.00 - —
Cadmium-Mercury lithopone, deep shade, bbls lb. 1.78 - —
Chrome, CP, bbls., dlvd. N. of Tennessee and N.C., E. of Miss. R., include Davenport, Tenn., and E. of Minneapolis, Rock Island, St. Louis, St. Paul lb. .33 - .33½

Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1½c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast for Denver, Pueblo, Salt Lake City. Wichita prices are equalized with Chicago.

Dinitroaniline toner CP .....lb. 1.45 - —
Mineral, American, bbls., l.c.l., works lb. .2235- —
Molybdated, bbls. .....lb. .46 - .46½
o-Nitroaniline toner, kegs.....lb. 1.15 - —
Peel, bitter, Haitian, bls.....lb. .14 - .16
sweet, bls. .....lb. .16 - .18
Orris root, Florentine, bls. .....lb. .45 - .50
powd., bbls., bxs. .....lb. .50 - .53
Verona, bls. .....lb. .35 - .40
powd., bbls., bxs. .....lb. .40 - .45
Orthoaminobiphenyl (see o-Aminobiphenyl)
Orthoanisidin (see o-Anisidine).
Orthochloroanilin (see o-Chloroaniline).
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde).
Orthochloroparanitroanilin (see 2-Chloro-4-nitroaniline).
Orthochlorophenol (see o-Chlorophenol).
Orthocresol (see o-Cresol).
Orthodichlorobenzene (see o-Dichlorobenzene).
Orthonitroanilin (see o-Nitroaniline).
Orthonitrochlorobenzene (see o-Nitrochlorobenzene).
Orthonitrobiphenyl (see o-Nitrobiphenyl).
Orthonitroparachlorophenol (see 2-Nitro-4-chlorophenol).
Orthonitrophenol (see o-Nitrophenol).
Orthonitrotoluene (see o-Nitrotoluene).
Orthophenetidin (see o-Phenetidine).
Orthophenylphenol (see o-Phenyl phenol).
Ortho-tertiary-amylphenol (see o-tert-Amylphenol).
Orthotolidin (see o-Tolidine base).
Orthotoluidin (see o-Toluidine).
Osage, orange, cryst., No. 1, bbls. l.c.l. lb. .40 - —
extract, liq., No. 1, bbls., l.c.l., lb. .19 - —
Ouabain, USP, bots.....gram. 3.00 - 4.00
Oxyquinolin sulfate, cns., 100-lb. lots, works lb.4.75 - 5.00
smaller lots, works.....lb. 4.92 - 5.17

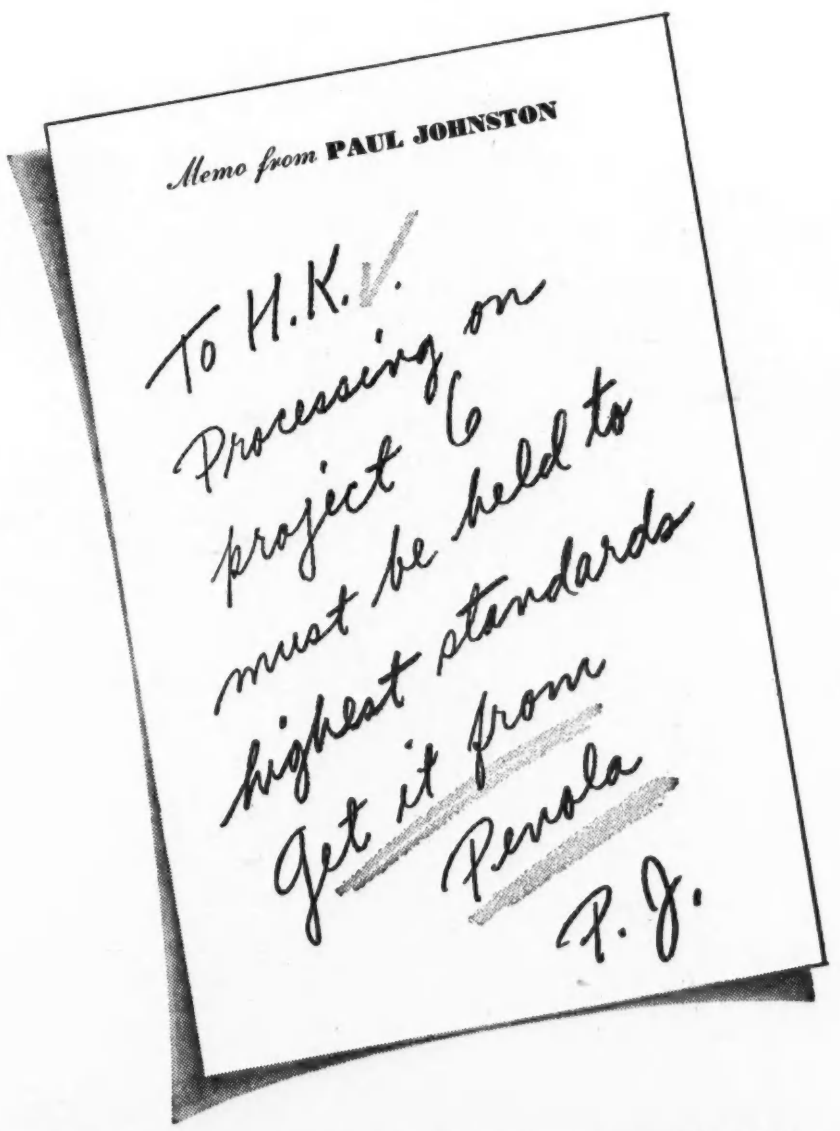
P

Papain, USP, African, bots.....lb. 3.50 - 4.00
Ceylon .....lb. 3.00 - 3.50
Papaverine, nat. or syn. hydrochloride, USP, cns., 25-oz. to 100-oz. lots..oz. 5.00 - —
smaller lots .....oz. 5.05 - 5.20
Sulfate, cns. .....oz. 7.10 - 7.35
Paprika, Roumanian, bgs.....lb. .26 - —
Spanish, bgs. .....lb. .34 - —
Yugoslavian, bgs. .....lb. .33 - —
Para-aminophenol (see p-Aminophenol).
Para-anisidin (see p-Anisidine).
Parachloro-orthonitroanilin (see 4-Chloro-2 nitroaniline).
Parachloranilin (see p-Chloraniline).
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).
Parachlorophenol (see p-Chlorophenol).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).
Paraffin, crude, scale, white, 123°-127°F, ASTM, solid, c.l., refy..lb. .0750- —
fully refd., 122°-124°F, ASTM, c.l., refy..lb. .0905- —
125°-127°F, ASTM, slabs, loose, c.l., refy..lb. .0905- —
130°-132°F, ASTM, slabs, loose, c.l., refy..lb. .0905- —
132°-134°F, ASTM, c.l., refy lb. .0905- —
135°-137°F, ASTM, slabs, loose, c.l., refy..lb. .0905- —

Prices for paraffin in bags and ctns., c.l., 7/10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher and under 1,000 lbs. 3.7c. per lb. higher.

AMP temperatures are an arbitrary 3°F higher than ASTM.

Paraformaldehyde, 91%, flake, bgs., c.l., frt. alld..lb. .1075- —
l.c.l., frt. alld.....lb. .1275- .1375
powd., bgs., c.l., frt. alld..lb. .13½- —
l.c.l., frt. alld.....lb. .17 - —
Paraformaldehyde, USP, X, fib. dms., c.l. lb. .163 - —
1,000-lb. lots .....lb. .193 - —
smaller lots .....lb. .208 - —
Paraldehyde, tech., 98%, 55-gal. dms., c.l., works lb. .13½- —
l.c.l., works .....lb. .14½- —
tanks, works .....lb. .11½- —
Paranitroanilin (see p-Nitroaniline).
Paranitrochlorobenzene (see p-Nitrochlorobenzene).
Paranitrotoluene (see p-Nitrotoluene).
Paranitrophenol (see p-Nitrophenol).
Paraphenetidin (see p-Phenetidine).
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-amylphenol (see p-tert-Amylphenol).
Para-tertiary butylphenol (see p-tert-Butylphenol).
Parathion, spray powder, 15%, dealers, dms., bgs., frt. alld..lb. .50 - .53
tech., dms., c.l., t.l., works...lb. 1.3395- —
l.c.l., works .....lb. 1.51 - —
Paratoluenesulphonamide (see p-Toluenesulfonamide).
Paris green, dealer, dms., c.l., frt. alld lb. .44 - .47
l.c.l., same basis .....lb. .45 - .48
Passion flower herb, bls.....lb. .20 - .21
Peanut meal, 45%, old process, bgs., mills ton.55.00 - —
Pectin, citrus, NF, powd., bbls. lb. 2.05 - 2.06
tech., powd., bbls. .....lb. 1.25 - —
imported, Danish, ex whse ...lb. 1.28 - —
Penicillin, crystalline, potassium, sterile, bulk, 1,000,000 units. .0475- .0520
Procaine, bulk....1,000,000 units. .0475- .0520
Sodium, sterile, bulk, 1,000,000 units. .0475- .0520
Pentachlorophenol, dms., c.l., t.l., works, frt. equald lb. .21 - —
l.c.l., same basis.....lb. .22½- .29
Pentaerythritol, tech., bgs., c.l., works lb. .32 - —
l.c.l., works .....lb. .33 - —
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane, indust., tanks., Tex. refy. gal. .13 - —
Pepper, black, Malabar, spot, bgs lb. .31 - —
red, Gondar, spot, bgs.....lb. No prices.
Japanese, hontaka, bgs. .....lb. .33 - .34
birdseyes, bgs., new crop lb. No prices.
Mombasa, bgs., shipt.....lb. .65 - —
Nigerian, bgs. .....lb. .29½- —
Turkish, bgs. .....lb. .28 - —
white, bgs. .....lb. .33 - .33½
Peppermint leaves, USP, dom., bls., dms lb. .70 - .75
imp., bls. .....lb 1.10 - —
Perchloroethylene, dms., c.l., or truckloads, dlvd. E lb. .12½- —
l.c.l., dlvd. E. .....lb. .14 - —
tanktruck, 1,000 gal., min. dlvd. E. lb. .11½- —
tanks, dlvd. E. .....lb. .11 - —
dlvd. W. .....lb. .11½- —
Peru balsam, dms. .....lb. 1.50 - 1.75
Petrolatum, amber, dms., c.l., refy. lb. .06 - .06⅝
l.c.l., dlvd. .....lb. .07⅛- .08
tanks, refy. .....lb. .08¼- .05⅛
cream, dms., c.l., refy.....lb. .07⅛- .08⅛
l.c.l., dlvd. .....lb. .09½- .09¾
tanks, refy. .....lb. .05⅜- .06⅝
extra amber, dms., c.l., refy lb. .06¼- .06⅞
l.c.l., dlvd. .....lb. .08 - .08¼
tanks, refy. .....lb. .04½- .05⅜
Petrolatum, USP, white, lily, dms., c.l., refy. .....lb. .07¾- .08¼
l.c.l., dlvd. .....lb. .09⅞- .10⅛
tanks, refy. .....lb. .05⅞- .07
snow, dms., c.l., refy.....lb. .08½- .08¾
l.c.l., dlvd. .....lb. .10¾- .10⅝
tanks, refy. .....lb. .06⅜- .06⅞
soft, dms., c.l., refy.....lb. .07¾- .08¾
l.c.l., dlvd. .....lb. .09½- .09¾
tanks, refy. .....lb. .05¼- .06⅞
yellow, soft, dms., c.l., refy lb. .06¼- .06¾
l.c.l., dlvd. .....lb. .07⅞- .08⅛
tanks, refy. .....lb. .04½- .06⅞
Petroleum, lacquer diluent, 150°-240°F, b.r., tanks, West Coast, ex tax, Los Angeles. gal. .169 - .204
East coast, N. J., N. Y. . gal. .19 - —
Group 3, benzol-type . gal. .14125- .14625
toluol-type .....gal. .13125- .13375
Mineral spirits, reg., tanks, Calif., ex tax, San Francisco gal. .164 - —
East coast, N.J., N.Y gal. .17 - —
Group 3 .....gal. .11875- —
tankwagon, Boston.....gal. .19 - —
Buffalo .....gal. .195 - —
Chicago .....gal. .279 - —
Cleveland .....gal. .22 - —
Newark .....gal. .18 - —
New York .....gal. .18 - —
Philadelphia .....gal. .185 - —
Pittsburgh .....gal. .18 - —
Providence .....gal. .195 - —



specify **PENOLA SOLVENTS**
for all three important advantages:

- **IMMEDIATE AVAILABILITY**—Penola's multi-location storage facilities assure ready supply for your processing needs.
- **FAST DELIVERY**—Penola speeds your solvent to you by truck or tank car.
- **QUALITY**—you can depend on the tested purity of Penola Solvents for high efficiency and economical processing.

And Penola's *balanced solvency, controlled evaporation* and *exact uniformity* are extra reasons for choosing Penola Solvents. For expert technical assistance and any technical data you require regarding your processing operations, be sure to call the Penola Office nearest you.

Penola Oil Company New York • Detroit • Chicago

Penola

Petroleum, mineral spirits, odorless, tanks, refy., Watson, Cal. gal. .245 - —
Borger, Tex. gal. .24 - —
Houston, Tex. gal. .24 - —
Wood River, Ill. gal. .2625- —
dlvd. N. J. gal. .32 - —
dlvd. N. Y. gal. .33½- —
tankwagon, N. J., dlvd gal. .36 - —
N. Y., dlvd. gal. .37 - —

Naphtha, cleaners, tanks, East Coast, N. J., and N. Y. gal. .17 - —
Group 3 gal. .12875- —
tankwagon, Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —

High solvency (see Petroleum solvent, partial aromatic).

VM&P, 225°-300°F., b.r., tanks, West Coast, Los Angeles gal. .169 - —
Portland, Ore. gal. .175 - —
San Francisco gal. .174 - —
Seattle, Wash. gal. .175 - —
East Coast, N. J. and N. Y. gal. .18 - —
Group 3 gal. .12375- —
tankwagon, Boston gal. .205 - —
Chicago gal. .289 - —
Cleveland gal. .23 - —
Newark gal. .195 - —
New York gal. .195 - —
Philadelphia gal. .20 - —
Pittsburgh gal. .19 - —

Petroleum, solvent, partial aromatic, tanks, 205°-282°F., b.r., 41°C., m.a.p., N. Y., N. J. gal. .245 - —
212°-278°F b.r., 43°C. m.a.p., N. J gal. .26 - —
212°-284°F b.r., 19°C. m.a.p., N. J gal. .29 - —
224°-280°F., b.r., 48°C. m.p.a., Houston gal. .215 - —
273°-361°F b.r., 29°C. m.a.p., N. J gal. .29 - —
282°-325°F. b.r., 41.5°C. m.a.p. Houston gal. .25 - —
287°-386°F., b.r., 31°C., m.a.p., N. J. gal. .29 - —
310°-314°F., b.r., 13.5°C., m.a.p., Texas City gal. .33 - —
310°-348°. b.r., 17°C., m.a.p., N. Y., N. J gal. .35 - —
320°-360°F., b.r., 16°C., m.a.p., N. Y., N. J gal. .33 - —
324°-349°F, 37°C., m.a.p., Houston gal. .33 - —
341°-390°F., b.r., 35°C., m.a.p., N. J gal. .27 - —
352°-413°F., b.r., 30°C., m.a.p. Houston gal. .33 - —
358°-401°F., b.r., 25°C., m.a.p., N. Y., N. J. gal. .39 - —
364°-404°F b.r., 19°C. m.a.p., N. Y., N. J gal. .425 - —
367°-418°F. b.r., 19.6°C. m.a.p., N. Y., N. J gal. .33 - —
rubber, tanks, Cal., ex tax, San Francisco gal. .173 - —
East Coast, N. J., N. Y., gal. .18 - —
Group 3 gal. .12875- —

Petroleum, solvent, Stoddard, tanks, East Coast, N. J., N. Y. gal. .17 - —
Group 3 gal. .12375- —
Pennsylvania, western gal. .18 - —
Boston gal. .19 - —
Chicago gal. .209 - —
Cleveland gal. .22 - —
Los Angeles, ex tax gal. .194 - —
Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
Pittsburgh gal. .18 - —

sulfonate, oil soluble, 60-62% sulfonic content, non-ret. dms., c.l., works lb. .16½- .18¾
l.c.l., works lb. .17½- .19
tanks, works lb. .14½- .17

50-55% sulfonic content, non-ret. dms., c.l., works lb. .16 - —
l.c.l., works lb. .17 - —
tanks, works lb. .13 - —

o-Phenetidine, dms., t.l., frt. alld. E lb. .91 - —
l.c.l., same basis lb. .93 - —

p-Phenetidine, dms., frt. alld. lb. 1.00 - —

Phenobarbital, USP, dms., 100-lb. lots lb. 3.50 - —

Phenobarbital-sodium, USP, dms., 100-lb. lots lb. 3.50 - —

Phenol, 90-92% (cresol 8-10%), non-ret. dms. c.l. frt alld. E. of Rockies lb. .16¾- .18
l.c.l., same basis lb. .17½- .19
tanks, same basis lb. .15 - .16

82-84% (cresol 16-18%), non-ret. dms., c.l., same basis lb. .16¼- .17½
l.c.l., same basis lb. .17 - .18½
tanks, same basis lb. .14½- .15½

39°C or above, tar distilled, non-ret. dms., c.l., same basis. lb. .18¼- .19½
l.c.l., same basis lb. .19 - .20½
tanks, same basis lb. .16½- .17½

Phenol, USP, syn., dms., c.l., t.l., frt. alld lb. .18¾- .20
l.c.l., same basis lb. .20½- .23
tanks, same basis lb. .17 - .18

Phenolphthalein, USP, or yellow, bbls., dms., 2,000-lb. lots. lb. 1.10 - —
smaller lots lb. 1.12 - 1.17

Phenothiazine, NF, fib. dms., c.s., frt. adjusted lb. .39 - —
over 2,100 lbs., same basis lb. .41 - —
less than 2,100 lbs., same basis. lb. .43 - —

Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —

Salicylate (see Salol.)

Phenylacetaldehyde, soln., 50%, bots lb. 2.40 2.70
100% bots lb. 4.00 4.65

Phenylacetamide, 125-lb. dms. works lb. 1.10 - —
smaller dms., works lb. 1.15 - 1.10

dl-Phenylalanine, dms., works lb. 27.00 - 37.50

1-Phenyl-3-carbethoxy pyrazolone-5, 250-lb. fib. drms., dlvd. E lb. 3.60 - —
smaller dms., dlvd E lb. 4.00 - —

N-Phenyldiethanolamine, dms., c.l., dlvd. E lb. .40½- —
l.c.l., dlvd. E lb. .41½- —
tanks, dlvd. E lb. .38½- —

m-Phenylenediamine, dms., frt. alld. lb. .95 - —

o-Phenylenediamine, comi., 100 to 1,000 lbs., fib. dms., works lb. 1.70 - 1.80

p-Phenylenediamine, tech., refd., dms., works lb. 1.42 - —

Phenylethanolamine d m s., c.l., works lb. .75½- —
l.c.l., same basis lb. .76 - —

Phenylethyl acetate, bots lb. 1.30 - —

b-Phenylethylamine, dms., 1,000-lb. lots, works lb. 1.10 - —
smaller lots, works lb. 1.15 - 1.40

Phenylhydrazine base, CP bots lb. 3.00 - 3.07

Hydrochloride, comi. kgs., works. lb. 1.75 - —
purif., bots., works lb. 5.17 - —

1-Phenyl-3-methyl pyrazolone-5, 250-lb. lots, dlvd. E lb. 1.80 - —
smaller lots, dlvd lb. 2.10 - —

Phenylethylphenyl acetate, bots lb. 3.95 - 4.40

o-Phenylphenol, dms., l.c.l., works. lb. .42 - .44

p-Phenylphenol, bgs., c.l., works lb. .35 - .37
l.c.l., works lb. .39½- .41¼

Phloroglucinol, comi., fib. dms., works lb. 6.40 - —

C.P., bots., works lb. 17.75 - —
tech., fib. drums., works lb. 10.45 - —

Phosphate, defluorinated (see under Dl. Rock, Curacao, Atlantic ports, New Orleans ton. 45.00 - —

Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 68-66%, b.p.l., bulk, c.l., mines long-ton. 4.81 - 4.82
70-68%, b.p.l., c.l., same basis long-ton. 5.21 - 5.22
72-70%, b.p.l., c.l., same basis long-ton. 5.87 - —
75-74%, b.p.l., c.l., same basis long-ton. 6.87 - —
78-76%, b.p.l., c.l., same basis long-ton. 7.87 - —

The Florida prices (above) are based on fuel oil at $2.47 per bbl. and labor at $1.39. Recent labor advance currently absorbed.

Phosphorus, amorph., red, dms., t.l., works lb. .43 - —
smaller lots, works lb. .44 - .45
white (yellow), solid, dms., c.l., works, frt. equald lb. .20 - .20¼
l.c.l., works, frt. equald. lb. .21¼- —
tanks, works, frt. equald. lb. .19 - —

Oxychloride, dms., c.l., works lb. .14 - —
l.c.l., works lb. .15 - —
tanks, works lb. .12½- —

Pentasulfide, solid, dms., c.l., works lb. .11½- —
l.c.l., works lb. .12½- —

Pentoxide, dms., c.l., works lb. .13½- —
l.c.l., works lb. .16½- —

Sesquisulfide, tins, cs., works lb. .29 - —
export, dms. lb. .31 - .36

Trichloride, dms., c.l., works lb. .14 - —
l.c.l., works lb. .15 - —
tankcars, works lb. .12½- —

Phthalic anhydride, ecs, c.l., works, frt. equald lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .19¼- —

Phthalimide, 97%-98%, dms., frt. equald lb. .65 - —

Phthalylsulfacetamide, 1,000-lb. lots or more lb. 5.00 - —

a-Picoline, ret. dms., c.l., works, frt. equald lb. .43 - .43¼
l.c.l., works, frt. equald lb. .44 - —
tanks, same basis lb. .415 - .422

b,g-Picoline, 5°C. dms., c.l., works. lb. .32½- —
l.c.l., works lb. .33 - —

g-Picoline, 98%, dms., works lb. 2.00 - —

Pilocarpine hydrochloride, USP, bots oz. 4.75 - 5.25

Nitrate, USP, bots., vials oz. 4.65 - 4.75

Pimento, Jamaican, bgs lb. .72 - —
Mexican, bgs. lb. .60 - —

Pink root, bls. lb. 3.00 - 3.25

d-Piperazine hexahydrate, French Codex, bots kilo. 8.00 - 8.50

Piperidine, dist., dms., frt. equald. lb. 2.60 - 2.70

Piperonyl butoxide, dms., dlvd. E. lb. 4.50 - 5.05

Cyclonene, dms., dlvd. E lb. 3.70 - 4.25

Pitch, coaltar, 150°-170°F. m.p., tanks, works ton. 37.00 - —

Cottonseed, raw, dms., works lb. .02¼- .03
Linseed, dms lb. .06 Nom.
Marine, dms. lb. .04¼- .05
Petroleum (see Asphalt, petroleum).
Soybean, dms., works lb. .05 Nom.
Tall, dms., works lb. .03¾- .04¼

Plaster of Paris (see Gypsum).

Platinum metal, works oz. 103.00 - 105.00

Pleurisy root, bls. lb. .45 - .50

Podophyllum resin, NF, dms. lb. 15.60 - —

Poke root, bls. lb. .19 - .22

Polymyxin, bulk, bots., dms., 50 billion units or more. 1,000,000 units. .52 - —
25-50 billion units. 1,000,000 units. .54 - —
1-25 billion units. 1,000,000 units. .56 - —

Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works lb. .41 - —
10,000-20,000-lb. lots, works. lb. .43 - —
smaller lots, works lb. .46 - .48

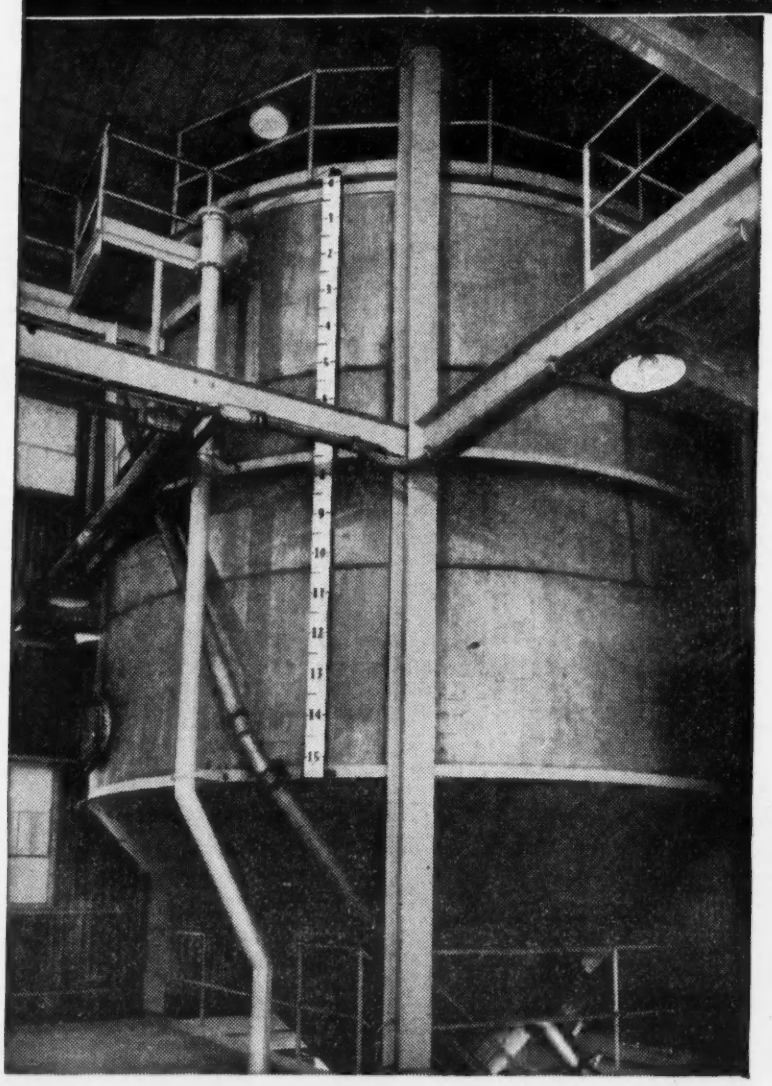
tristearate, dms., 20,000 lb. lots, works lb. .41 - —
10,000-20,000 lb. lots, works. lb. .43 - —
smaller lots, works lb. .46 - .48

Poppy seed, Argentine, bgs lb. .17 - —
Dutch, bgs. lb. .21½- —
Iranian, bgs. lb. .15 - —
Polish, bgs. lb. .20½- —
Turkish, bgs. lb. No prices.

Potash, caustic, reg., flake, 88-92%, dms., c.l., works. 100 lbs. 9.15 - —
l.c.l., works 100 lbs. 10.20 - —
liq., 45% basis, dms., c.l., works 100 lbs. 4.25 - —
l.c.l., same basis. 100 lbs. 5.05 - —
tanks, same basis. 100 lbs. 3.70 - —

Niagara's new plant facilities assure purity and uniformity for you in

Nialk CARBONATE OF POTASH

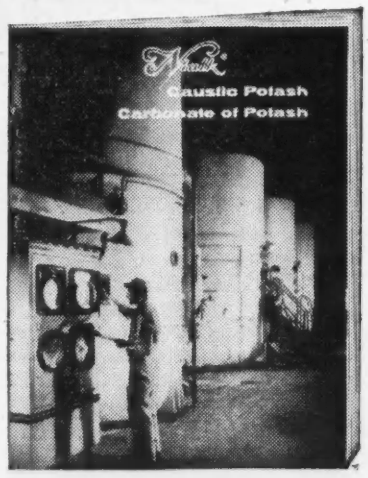


From this huge central storage silo, NIALK Carbonate of Potash is fed to all loading points for filling bags, barrels and hopper cars.

Niagara is setting top standards in the production of carbonate of potash. From raw material to finished product, NIALK chemicals pass through scrupulously clean processing equipment to spick-and-span containers. Quality checks are performed at every stage of the process to protect purity, guarantee uniformity.

These modern facilities and methods, coupled with Niagara's long production experience and reputation for quality, are your assurance of dependability in NIALK Carbonate of Potash. Your products and processes will benefit from this quality protection.

Send for free illustrated booklet, NIALK CAUSTIC POTASH, CARBONATE OF POTASH, *containing valuable data on the use and handling of these chemicals.*



HOOKER CHEMICALS & PLASTICS

From the Salt of the Earth

HOOKER ELECTROCHEMICAL COMPANY
4740 Buffalo Avenue, Niagara Falls, N. Y.
Niagara Falls • Tacoma • Montague, Mich. • New York • Chicago • Los Angeles

Potash, caustic, solid, 88-92%, dms., c.l., works 100 lbs. 8.70 - —
l.c.l., works 100 lbs 9.75 - —
Potassium acetate, NF, dms lb. .31 - .36
Bicarbonate, USP, gran., dms lb. .22 - —
powd dms lb. .24 - —
Bichromate, bgs., c.l., works lb. .16½- —
l.c.l., works lb. .17 —
Potassium bichromate in dms ½c. higher.
Bitartrate, NF, dom., gran. or powd., bbls., 5,000 lbs., l ship't lb. .38½- —
dms., c.l. lb. .38 - —
smaller lots lb. .39 - .42
imp. kgs. lb. .29 - —
Bromate, dms., 1,000 lbs. or more, lb. .50 - —
25-200 lb. lots lb. .52 - .62
Bromide, USP, gran., bbls., kgs lb. .37 - .38
Carbonate, NF, gram., bbls., dms. lb. .20 - —
powd., bbls., dms lb. .21 - .22
tech., calcined, bbls., c.l., works, 100 lbs. 9.00 - —
c.l., same basis 100 lbs 10.05 - —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 8.55 - —
Chlorate cryst., dms., c.l., works, lb. .10¼- —
l.c.l., works lb. .10½- .11½
powd., dms., c.l., works lb. .10¾- —
l.c.l., works lb. .11 - .12
NF gran., 25-lb metal dms lb .35 —
Chloride, agricultural (see Potassium muriate).
indust 99.9% KCl, bulk, c.l., works ton.29.00 - —
bgs., c.l., works ton.33.25 - —
99.3% KCl, bulk, c.l., works, ton.27.00 - —
bgs., c.l., works ton.31.25 - —
USP, cryst., dms lb. .21 - .23
gran., dms lb. .15 - .17
powd., dms lb. .24 - .26
Chromate, tech., bgs lb. .50 - .50½
Citrate USP gran dms lb. .41 - —
powd. dms lb. .40½- .41½
Cyanide dms., 20,000-lb. lots or more, works lb. .45 - —
2,000-19,999-lb. lots, works lb. .455 - —
smaller lots, works lb. .465 —
Dichromate (see Potassium bichromate).
Ferricyanide, dms., ton lots lb. .59 - —
Ferrocyanide, bgs., ton lots lb. .22½- —
smaller lots lb. .23 - —
Fluoborate, fib. dms., c.l., works, lb. .30 - —
l.c.l., works lb. .31 - —
Fluoride, dms., works lb. .37 - .38
Gluconate, dms. lb. 1.60 - —
Guaiacolsulfonate, NF, dms lb. 2.10 - 2.30
Hydroxide, tech. (see Potash caustic).
USP, pellets 100-lb. dms. 1 to 100-dm. lots lb. .28½- .33
Hypophosphite, NF, fib. dms., ton lots or less lb. 1.00 - 1.03
Iodide, dms lb. 1.90 - 1.95
Manure salt, 22% K_2O, base price, unit-ton. .17 - .1765
July forward unit-ton. .38 - —
Metabisulfite, gran., dms lb. .20 - .21
powd., dms lb. .25 - —
Muriate, 59-63% K_2O, bulk, c.l., works, base price unit-ton. .36 - —
July forward unit-on. .38 - —
60-63% K_2O, bgs. c.l., works, base price ton.26.00 - —
July forward ton.27.20 - —
Nitrate, cryst., bbls., 20-ton lots, 100 lbs.14.40 - —
smaller lots 100 lbs.14.65 -14.90
gran. bbls., 20-ton lots.100 lbs. 9.75 - —
smaller lots 100 lbs.11.10 -11.50
powd., bbls., 20-ton lots.100 lbs.10.75 - —
smaller lots 100 lbs.12.00 -12.50
USP gran. dms lb. .18 —
Potassium nitrate in bags 50c. per 100 lbs less in kegs, $1 more
Oxalate, neutral, tech., fine gran., bbls., dms lb. .30 - .32
Pentaborate, gran., bgs., c.l., works ton.191.50 - —
dms., ton lots, ex whse ton.198.00 - —
smaller lots, ex whse ton.302.50 - —
Powdered potassium pentaborate $10.25 per ton higher.
Perchlorate, dms., c.l., works lb. .17½- —
l.c.l., works lb. .18 - .19
Permanganate, coml., kgs., works, lb. .24½- .27½
USP, dms., works lb. .27¼- .29
Persulfate, dms., 5-ton lots, works, lb. .18 - —
1-ton lots works lb. .20 - —
bbls., works lb. .16½- .18
Pyrophosphate, tetrabasic, dms., works lb. .15½- .18½
Prussiate red (see Potassium Ferricyanide).
yellow (see Potassium Ferrocyanide).
Silicate, glass bgs., c.l., works, 100 lbs.17.00 -17.30
l.c.l., works 100-lbs.17.80 - —
soln., clarif. 29° Be, 1:2.5, dms., c.l., works 100 lbs. 5.80 - —
l.c.l., 5 dms. or more works 100-lbs. 6.55 - 6.95
tanks, works 100-lbs. 5.45 - —
electrical grade, 29° Be, 1:2.0 dms., c.l., works 100 lbs. 6.50 - —
l.c.l., 5 dms. or more, works 100 lbs. 7.25 - 7.65
tanks, works 100 lbs. 6.15 - —
40.5° Be, 1:2.1, dms., c.l., works 100 lbs. 6.45 - —
l.c.l., 5 dms. or more works 100 lbs. 7.20 - 7.60
Silicofluoride, bgs., works lb. .09½- .10
Potassium silicofluoride in drums, 0.4c. per lb higher.
Stannate, dms., frt. alld. E lb. .682 - .748
Sulfate agricultural, 50% K_2O, bulk, works, base price, unit-ton. .64 - —
July forward unit-ton. .67 - —
NF VII, cryst., dms lb. .31 - .33
gran., dms. lb. .18½- —
powder, dms. lb. .16½- .17
Sulfocyanate, NF, cryst., (see Potassium thiacyanate).
Thiocyanate, NF, cryst., dms lb. .84 - .94
tech., works lb. .77 - .79
Titanate, ctns., c.l., works lb. .14 - —
5-ton lots, works lb. .14½- —
1-ton lot or less, works lb. .14¾- —
Toluene sulfonate, dms., c.l. or tl., works lb. .42 - —
l.c.l., works lb. .46 - —
Potassium-magnesium sulfate, bulk, works, basis 40% K_2SO_4, 18% MgO, base price ton.13.45 - —
July forward ton.14.90 - —
Potassium-sodium tartrate, NF, gran., powd., dms., c.l. lb. .40½- —
5,000-lb. lots lb. .41 - —
smaller lots lb. .41½- .47
Potassium-titanium fluoride, fib. dms, works lb. .39 - .40
Potassium-zirconium fluoride, fib. dms, c.l., works lb. .50 - —
l.c.l., works lb. .52½- .55
Pregnenolone, bots. gram. .45 - —
Acetate, bots. gram. .40 - —
Procaine hydrochloride, USP, dms., 1,000-lb. lots, frt. alld. lb. 2.90 - —
100-lb. lots lb. 3.00 - 3.06
Progesterone, USP, bots., 100 gram lots gram .50 - —
Acetate, bots. gram .79 - —

Propane, indust., tanks, group 3 gal. .04½- —
N. Y. Harbor gal. .09 - —
n-Propyl acetate, dms., c.l., dlvd lb. .12¾- —
l.c.l., dlvd. lb. .13¾- —
tanks, dlvd. lb. .1075- —
Gallate, dms., 100 to 2,000-lb. lots, works lb. 3.90 - 4.40
p-Hydroxybenzoate, USP, dms lb. 2.30 - 2.40
Propyl thiouracil, bots., 50-kilo lots or more kilo.55.00 - —
smaller lots kilo.55.10 -55.30
Prices in West 1c higher dlvd., on same basis
Propylene dichloride dms. c.l., dlvd. E lb. .0845- —
l.c.l., same basis lb. .095 - —
tanks, same basis lb. .07 - —
Glycol, indust., dms., c.l., dlvd. E lb. .15½- —
l.c.l., same basis lb. .16½- —
tanks, same basis lb. .13½- —
USP, dms., c.l., dlvd. E lb. .17½- —
l.c.l. same basis lb. .18½- —
tanks, same basis lb. .15½- —
Methyl ether, dms., c.l., dlvd lb. .20 - —
l.c.l. same basis lb. .21 - —
tanks, same basis lb. .18½- —
Propylene oxide, dms., c.l., dlvd. E lb. .17½- —
l.c.l., dlvd. E lb. .18½- —
tanks, dlvd. E lb. .15½- —
Psyllium seed, black, bgs. lb. .55 - —
blonde, bgs. lb. .18 - —
husks, bgs. lb. .40 - —
Pumice dom. grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots lb. .03¾- .04¼
smaller lots lb. .03¾- .04½
imp., Italian, silk-screen, coarse, bgs., ton lots lb. .06½- —
fine, bgs., ton lots lb. .04 - —
sun dried, coarse, bgs. ton lots lb. .02½- .04
fine, bgs., ton lots lb. .02½- .04

Pumpkin seed, bgs lb. .25 - .26
Pyrethrin, syn. (see Allethrin).
Pyrethrum flowers, fine grd., 0.9% pyrethrins, bbls., works lb. .45 - —
powd., 1.3% pyrethrins, obls., works lb. .65 - —
liq. 20:1 basis (2 grams pyrethrins per 100cc odorless base), dms., works gal. 8.75 - 8.80
100:1 basis (10 grams pyrethrins per 100cc odorless base), dms. works gal 41.75 -42.75
oleoresin, dewaxed, 20%, dms., works lb.10.00 —
purif. 20% dms., works lb.10.00 -10.10
Pyridine, denaturing, dms., c.l., works and frt. equald gal 2.77 - —
l.c.l., same basis gal 2.80 - —
refd., 2°, non-ret dms., l.c.l., same basis lb. .75 - —
Pyridoxine hydrochloride, bots., 100-gram lots gram. .37½- —
Pyrites, Canadian, works long-ton. 3.00 - 5.00
Pyrocatechol (see Catechol).
Pyrogallol, NF dms. lb. 3.27 - 3.30
Pyroxylin, scrap ungrd., amber, dms., works lb. .20 - —
black, dms., works lb. .12 - —
mixed mottled c.ms. works lb. .13 - —
shavings, amber, cs., works lb. No stocks.
mixed colors, dms., works lb. .11 - —
white, china, ivory, dms., works lb. .16 - —
dense, opaque, dms., works, lb. .12 - .18

Pyroxylin, scrap, shavings, translucent pastels, cs., works lb. .14 - —
colors, dms., works lb 15 —
USP bots lb 9.50 —

Q

Quassia chips lb 17 —
Quebracho extract, clarif., grd., 70% tannin bgs c.l. lb. .16½- .16¾
liq. 35% tannin bbls. works lb. .08¼- .08½
solid, clarif., 64% tannin, bgs., c.l., exdock, duty extra lb. .12 23 64
ord. 63% tannin bgs. c.l. same basis lb 11 21 32 —
Quercitron extract, cryst., No. 1, bbls., l.c.l. lb. .40 - —
liq. No. 1, bbls. l.c.l lb 19 —
Quicksilver (see Mercury metal).
Quince seed, bgs lb. 2.00 Nom.
Quinidine sulfate, USP, cns., 100-oz. lots oz. .75 - .87
Quinine, NF, cns., 100-oz. lots oz. .54 - —
Bisulfate, USP, cns., 100-oz. lots, oz. .37½- —
Ethylcarbonate, NF, cns., 100-oz. lots oz. .63½- —
Hydrobromide, NF, cns., 50-oz. cns. oz. .47½- —
Sulfate, USP cns., 100-oz. lots oz. 42 - —

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Quinine and Urea hydrochloride, NF, cns oz. .56 - —
Quinoline, dms., c.l., frt. equald lb. .50¾- —
l.c.l., same basis lb. .51¼- —
tanks, same basis lb. .50 - —

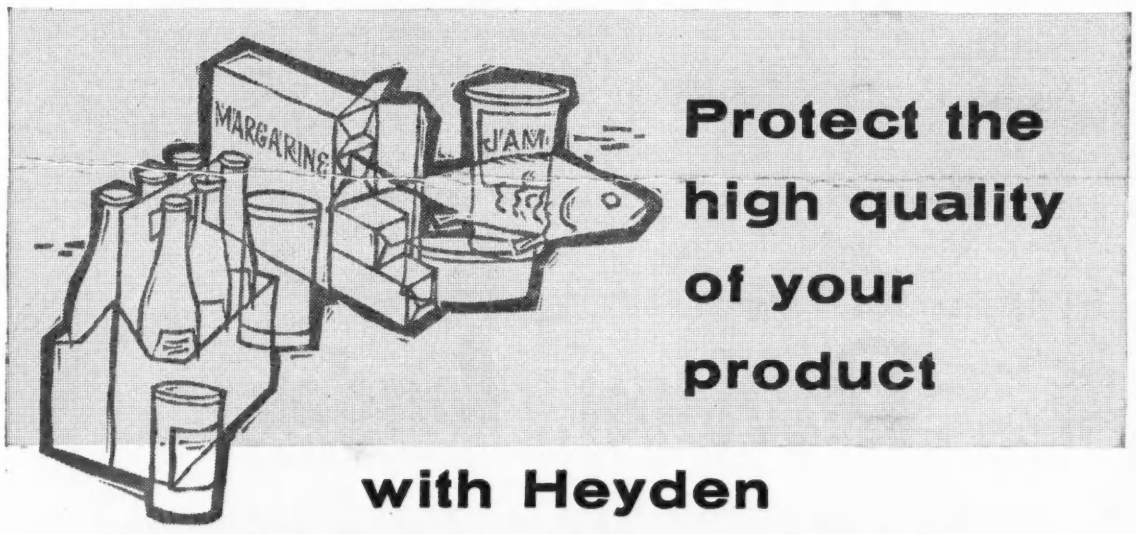
R

R salt, paste, dms., frt. alld., 100% basis lb. .88 - —
powd. frt. alld. 100% basis lb. .98 - —
Rauwolfia serpentina root, powd., bbls., dms lb. 2.00 - —
Red, BON acid maroons, pure, bbls., lb 1.75 - —
resinated, bbls lb 1.50 - —
arylid, deep shades, bbls lb. 3.60 - —
light shades, bbls lb 2.75 - —
maroon, bbls lb 3.60 - 3.90
Red, cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies lb. 4.30 - —
light shade, bbls., same basis. lb. 4.00 - —
medium shade, bbls., same basis lb. 4.25 - —
medium light shade, bbls., same basis lb. 4.05 - —
orange shade, bbls., same basis. lb. 3.95 - —
orange red, bbls., same basis. lb. 1.81 - —
Red, cadmium selenide lithopone, maroon shade, bbls., same basis. lb. 3.77 - —
dark, bbls., same basis. lb. 3.90 - —
red shade, dark, bbls., same basis lb. 3.44 - —
light, bbls., same basis. lb. 2.24 - 2.32
medium, bbls., same basis lb. 2.99 - —
medium light, bbls., same basis lb. 2.49 - —
Mercury lithopone, dark shade, bbls., same basis lb. 2.40 - —
light shade, bbls., same basis. lb. 1.95 - —
medium shade, bbls., same basis lb. 2.25 - —
medium light shade, bbls., same basis lb. 2.10 - —
Carmine No. 40 (see Carmine).
Dyes (see Dyes, coaltar).
Eosin toner bbls., works lb. 1.65 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y lb. .12¾- —
Iron oxide, nat., 75-85% ferric oxide, bgs., l.c.l., Bethlehem, Pa., Copley, O., Easton, Pa., bgs., c.l., works lb. .0675- —
Red, lake C toner, alizarine, bbls., works lb. 1.13 - —
rubine toner, pure, bbls., works. lb. 1.50 - —
resinated, bbls., works lb 1.40 - —
Virginia type, bbls., works lb. 1.40 - —
Red, maroon toner, MNPT, kgs., c.l., works lb. 3.60 - —
10,000-lb. lots, works lb. 4.22 - —
smaller lots, works lb. 4.24 - —
Mercury oxide, tech., c.l., works. lb. 5.77 - —
Metallic, bbls., c.l., works lb. .02½- —
l.c.l., works lb. .02¾- —
Naphthol, ITR, bbls., works lb. 5.25 - —
Oxide (see Red iron oxide).
Persian Gulf, bgs., c.l., works. lb. .07¾- —
l.c.l., works lb. .08 - —
Para toner, bbls. lb. 1.10 - —
chlorinated, kgs lb. 1.10 - 1.15
Phloxin toner (see Red eosin toner).
Rhodamine, molybdated, PMA, kegs lb. 5.35 - 5.60
tungstated, PTMA, works, kegs. lb. 6.40 - —
Spanish oxide, bbls., c.l., ex-dock. lb. .05¾- —
l.c.l., ex dock lb. .06 - —
ex whse., New York lb. .06½- —
Toluidine toner, deep shades, kgs., works lb. 1.62 - 1.65
light shades, kgs., works lb. 1.62 - 1.65
Turkey, bbls., works lb. .62 - —
Tuscan, bbls., frt. equald lb. .26 - .32
Venetian, jobbing, bgs., works. lb. .0475- —
20%, bgs., works lb. .0525- —
25%, bgs., works lb. .0575- —
30%, bgs., works lb. .06 - —
35%, bgs., works lb. .0625- —
40%, bgs., works lb. .0675- —
Watchung-type, bbls lb. 1.95 - —
Red KB base (see 4-Chloro-2-aminotoluene).
Red, precipitate (see Mercuric oxide, red).
Red saunders, NF, powd., bbls lb. .35 - .40
Reserpine, cryst., bots gram. 5.00 - 5.50
Resorcinol, tech. grade, dms., c.l., works, frt. equald lb. .77½- —
l.c.l., same basis lb. .78½- —
USP, dms., works lb. 2.75 - —
powd., dms., works lb. 2.95 - —
Monoacetate, NF, dms lb. 3.00 - 3.25
Rhatany root, bgs lb. .15 16
Rhodinol, 5-lb. cans lb. 25.50 -34.00
Rhubarb root, India, whole, bgs lb. 1.75 Nom.
powd., bbls lb 2.50 Nom.
Riboflavin, USP, bots., dlvd kilo. 65.00 - —
readily soluble, bots., dlvd kilo. 130.00 - —
5'-phosphate-sodium, bots., 100-kilo lots or more kilo. 125.00 - —
Rochelle salt (see Potassium sodium tartrate).
Rosin gum and wood (see Naval Stores in Protective Coatings market).
Rotenone, fib. dms., works, 100% basis lb 10.00 - —
resin, 25-45%, fib dms., works, 30% basis lb. 3.00 3.30
Rottenstone, bgs., 5-ton lots, ex-whse lb. .03 —
ton lots, same basis lb. .04 —
Rutin, NF, fib. dms 25-kilo lots, kilo. 17.50 -18.50
10 to 25-kilo lots kilo. 17.50 -20.00
1 to 10-kilo lots kilo. 18.90 -20.00
Ryania, 100%, powd., bgs., c.l., works lb. .22 - —
l.c.l., same basis lb .24 - —

S

Sabadilla seed, powd., bbls lb. .49 - .49½
activated, ground with lime, bbls. lb. .30 - .32
Saccharin, USP, cryst., soluble, dms., 1000-lb. lots lb. 1.60 - —
smaller lots lb. 1.70 - 1.80
powd., soluble, insoluble, dms., 1,000-lb. lots lb. 1.65 - —
smaller lots lb. 1.75 - 1.95
Calcium, fib. dms., 1,000-lb. lots, works lb. 2.50 - —
Saffron, Spanish, USP, tins lb. 45.00 - —
Safrol, dms. lb. 1.00 - —
Sage, Cretan, bgs. lb. .11 - —
Dalmatian, bgs. lb. .44 - —
Italian lb. .26 Nom.
Sago flour, raw, bgs. lb. .07 .07¼
refd., bgs lb. .08½ .09
Sal soda (see Soda sal).
Salicylamide, 100-lb. dms lb. 1.00 - —
Salol, NF, gran., bbls., kgs lb. 1.15 - —
Powdered salol, 25c. higher
Salt rock, paper bgs., c.l. 100 lbs. 1.03 - —
table, vacuum, common, fine, paper bgs., c.l. 100 lbs. 1.23 - —
Saltcake, dom., bulk, works, 100% Na_2SO_4 basis ton 28.00 - —
Saltpeter (see Potassium nitrate).
Sandalwood, East Indies, chips bgs. .65 - .66
powd., fib. dms lb. .75 - .76
Sarsaparilla root, tmp., Honduras, bls lb. .58 - .62
Mexican, bls. lb. .58 - .62
Sassafras root bark, ord., bls lb. .45 - —
select, bbls. lb. .65 - —
Schaeffer's salt, paste, dms., frt. alld. 100% basis lb. .95 - —
powd., bgs., frt. alld., 100% basis. lb. .95 - —
Scopolamine hydrobromide, USP bots oz. 17.40 - —
Seidlitz mixture, bbls., 5,000-lb. lots lb. .30½- —
smaller lots lb. .31 .32
Selenium, powd., 99½%, dms., dlvd. lb. 13.50 -15.50
Senega root, bls lb. 3.10 - —
Senna leaves, Alex, whole and half, bls lb. .19 - —
siftings lb. .17 - —
Tinnevelly, No. 1, bls lb. .16 - .18
No. 2, bls. lb. .13 - .15
No. 3, bls. lb. .11 - .13
powdered, bbls., bxs. lb. .18 - —
pods, bls. lb. .14 - —
Serpentaria, root, bls lb. 5.50 - —
Sesame seed, Egyptian, nat lb. .16¾- —
hulled lb. .21 - —
Nicaragua, hulled, shipt., bgs. lb. .17½- —
nat., bgs. lb. .26½- —
Salvadorian, natural lb. .17½- —
Syrian, bgs., natural lb. .16 - —
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .58 - —
bbls., 1,500-lb lots lb. .60 - —
kgs., 1,500-lb lots lb. .61 - —
refd., bgs., 1,500-lb. lots lb. .66 - —
bbls., 1,500-lb. lots lb. .68 - —
kgs., 1,500-lb. lots lb. .69 - —
Bonedry shellac prices for less than 1,500 lb. lots 1c. per lb. higher for all packages.
Lemon No. 1, bgs., 10-bg. lots lb. .49 - .50
No. 2, bgs., 10-bg. lots lb. .47 - .48
Superfine, bgs., 10-bg. lots lb. .44 - .45
TN, bgs., 10-bg. lots lb. No stocks
Shellac in 1 to 10-bg. lots 1c. per lb. more.
Shingle stain oil (see Oil, shingle stain).
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., works ton 25.00 - —
l.c.l., works, exwhse ton 45.00 -55.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works ton 20.00 - —
l.c.l., works ton 25.00 -30.00
140 mesh, bgs., c.l., works ton 15.00 - —
l.c.l., works ton 20.00 - —
Silicon tetrachloride, tech., dms., c.l., works lb. .18 - —
l.c.l., works lb. .22 - .30¼
tanks, works lb. .17 - —
Silver bullion, ingots, cs Troy oz. .90¼- —
Cyanide, fib. dms., 2,500-oz. lots. oz. .84½- —
1,000-oz. lots oz. .84½- —
500-oz. lots oz. .84⅝- —
100-oz. lots oz. .84⅞- —
Nitrate, CP, cryst., bots., 2,500-oz. lots oz. .60 - —
1,000-oz. lots oz. .61½- —
500-oz. lots oz. .61¾- —
250-oz. lots oz. .62¼- —
USP granular silver nitrate 4c. per oz higher.
Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.05 - —
strong, NF, bots., dms., 1,000-oz. lots oz 1.00 - —
Soapbark, whole, bls lb. .38 - .40
crushed, bls., bbls lb. .45 - —
powd., bbls. lb. .45 - —
Soda ash, dense, 58%, paper bgs., c.l., works 100 lbs. 1.80 - —
l.c.l., stock points 100 lbs. 2.90 - 4.67
bulk, c.l., works 100 lbs. 1.50 - —
light, 58%, paper bgs., c.l., works 100 lbs. 1.75 - —
l.c.l., stock points 100 lbs. 3.85 - 4.62
bulk, c.l., works 100 lbs. 1.45 - —
Soda, caustic, flake, 76%, dms., c.l., works, frt. equald 100 lbs. 4.50 - —
l.c.l., stock points 100 lbs. 5.60 - —
liq., 50% sellers, tanks, works, dry basis 100 lbs. 2.80 - —
rayon type, sellers, tanks, works, dry basis 100 lbs. 2.80 - 2.90
70%, sellers' tanks, works, dry basis 100 lbs. 2.90 - —
rayon-type, sellers tanks, works, dry basis 100 lbs. 2.90 - 3.00

Soda, caustic, solid, 76%, dms., c.l., works	100 lbs.	4.10	—
l.c.l., stock points	100 lbs.	5.30	—
Sal., conc., bgs., c.l., works	100 lbs.	2.30	—
smaller lots, works	100 lbs.	2.60	—
Sodium acetate, anhyd., bgs., c.l., works	lb.	.13	—
dms., c.l., works	lb.	.13¾	—
NF, 60%, gran., dms., c.l., works	lb.	.14	—
l.c.l., works	lb.	.15½	—
Alginate, NF, white powd., dms., ton lots, works	lb.	.87	1.30
refd., bbls., works	lb.	.83	—
p-Aminobenzoic, dms., 1,000-lb. lots or more	lb.	2.25	—
smaller lots	lb.	2.35	2.45
p-Aminosalicylate, dms., 100 lbs. or more, frt. adjusted	lb.	2.70	—
Antimoniate, bbls., c.l., dlvd. E	lb.	.28	—
l.c.l., dlvd. E	lb.	.29½	—
Arsenate, 45% arsenic pentoxide, dms., c.l., works	lb.	.12½	—
l.c.l., works	lb.	.13¾	.14½
Arsenite, 90%, pink powder, 75% arsenious oxide, dms., works	lb.	.12¼	—
l.c.l., works	lb.	.13	.14½
soln., dms., works	gal.	.59	.67
Ascorbate, dms., 25-50 kilo lots	kilo.	12.00	—
10-kilo lots	kilo.	12.35	—
5-kilo lots	kilo.	12.75	—
1-kilo lots	kilo.	13.00	—
bots., 500-gram lots	kilo.	13.50	—
Benzoate, tech., bbls., dms., lots or more	lb.	.39	—
USP, bbls., dms., 100-lb. lots, or more	lb.	.46	—
Bicarbonate, USP, gran., bgs., c.l., works	100 lbs.	2.80	—
l.c.l., works	100 lbs.	3.55	—
powd., bgs., c.l., works.	100 lbs.	2.40	—
l.c.l., works	100 lbs.	3.15	—
Bichromate, bgs., c.l., works	lb.	.12¼	—
l.c.l., works	lb.	.12¾	.13¾
Bifluoride, bbls., c.l., works, frt. equaled	lb.	.18½	—
l.c.l., same basis	lb.	.1890	—
Bisulfate, bulk, c.l., works	100 lbs.	2.00	—
dms., c.l. frt. equaid	100 lbs.	3.00	3.60
l.c.l., frt. equaid	100 lbs.	3.50	4.10
Bisulfite, anhyd., bgs., c.l., works.	100 lbs.	4.50	—
l.c.l., works	100 lbs.	4.90	—
soln., 35° bbls., c.l., works.	100 lbs.	1.55	—
l.c.l. works	100 lbs.	2.05	—
Borate (see Borax).			
Bromide, USP, bbls., works	lb.	.38	—
Carboxymethyl cellulose (see CMC).			
Carbonate, cryst., monohydrated (see Soda, salt).			
monohydrated bgs., c.l., works.	100 lbs.	3.00	—
l.c.l., works	100 lbs.	3.40	—
Chlorate, cryst., dms., c.l., works.	lb.	.09	—
l.c.l., works	lb.	.10½	.11¼
Chloride, tech. (see Salt).			
USP, bgs.	lb.	.03	.12
Chlorite, tech., dms., c.l., works.	lb.	.58	—
20-ton lots or more, works.	lb.	.66	—
smaller lots, works	lb.	.70	.73
Chloroacetate, tech., dms., c.l., works	lb.	.27	—
l.c.l., works	lb.	.28	—
Chromate, dms., c.l., works	lb.	.13¼	—
l.c.l., same basis	lb.	.13¾	.15
Citrate, anhyd., dms	lb.	.62	—
NF VIII, gran., dms	lb.	.26½	.27½
USP, XIV gran., dms	lb.	.29½	.30½
Sodium citrate, USP, powd. higher		prices	½c
Cyanate, dms., 1,000-lb. lots, works	lb.	.85	1.10
smaller lots, works	lb.	1.00	1.25
Cyanide flake, 96-98%, dms., c.l., or 20,000-lb. lots	lb.	.178	—
over 1,000-lb. lots	lb.	.188	—
100-lb. to 1,000-lb lots	lb.	.198	—
Granular sodium cyanide 1c. higher.			
Diacetate, 33-35% acidity, 250-lb. dms., works	lb.	.15	—
l.c.l., works	lb.	.15¾	—
anhyd., dms., c.l., works	lb.	.18	—
l.c.l., works	lb.	.18¾	—
Dichromate (see Sodium bichromate).			
Ferrocyanide, bgs., 10-ton lots	lb.	.13½	—
smaller lots	lb.	.14	—
Fluoride, white, 97%, fib. dms., c.l., works, frt. equald	lb.	.1390	—
l.c.l. works	lb.	.1430	—
Formate, bgs., c.l., works	lb.	7.60	—
l.c.l., works	100 lbs.	8.65	—
Gentisate, 100-lb. fib. dms	lb.	8.50	—
Gluconate, refd., dms.	lb.	.80	.83
tech, dms	lb.	.35	—
Glutamate, mono., dms., c.l.	lb.	1.20	—
Hydride, dms., works	lb.	1.80	3.00
Hydrosulfide (see Sodium sulfhydrate).			
Hydrosulfite, dms., c.l., frt. alld.	lb.	.22	—
l.c.l., frt. alld.	lb.	.22½	—
Hydroxide, NF, pellets, 100-lb. dms., 1 to 100-dm. lots	lb.	.18½	.23
technical (see Soda, Caustic).			
Hydrophosphite, NF, dms., ton-lots or less	lb.	.93	.98
Hyposulfite, NF (see Sodium sulfate).			
pea crystals, bgs.	100-lbs.	4.50	—
gran., bgs., c.l., works	100 lbs.	4.75	5.00
Hyposulfite, photo grade, bgs., c.l., works	100 lbs.	4.50	4.75
l.c.l., works	100 lbs.	5.00	5.05
l.c.l. works	100 lbs.	4.90	6.90
tech., bgs., c.l., works	100 lbs.	4.50	—
l.c.l., works	100 lbs.	4.90	—
Sodium hyposulfite crystals in bbls., 50c. higher.			
Iodide, USP, bots., dms	lb.	2.55	2.62
Lactate, edible, 50%, cbys., dms., works	lb.	.21½	—
60% cbys., dms., works	lb.	.26½	—
tech., 50%, cbys., dms., works.	lb.	.16½	—
Lauryl sulfate, dms., c.l., dlvd.	lb.	.21	—
l.c.l., dlvd	lb.	.22	—
tanks, dlvd	lb.	.18½	—
Metabisulfite (see Sodium bisulfite).			
Metaborate, octahydrate, gran., bgs., c.l., works	ton.	85.00	—
l.c.l., ex whse	ton.	135.50	140.50
Sodium metaborate octahydrate in bbls, $24.50 per ton higher.			
Metaborate tetrahydrate, dms., c.l., works	ton.	204.00	—
Metallic bricks, 14,000-lb. lots or more, works	lb.	.17	.19
less than 14,000-lb. lots, works.	lb.	.175	.195
tanks, works	lb.	.16	—
Metanilate, bbls., frt. alld	lb.	.62	—
Metasilicate, anhyd., bgs., c.l., works	100 lbs.	5.35	—
l.c.l., works	100 lbs.	5.70	7.65
dms., c.l.	100 lbs.	5.85	—
l.c.l.	100 lbs.	6.20	8.10
pentahydrate, bgs., c.l., works.	100 lbs.	4.25	—
l.c.l., works	100 lbs.	4.60	6.50
dms., c.l., works	100 lbs.	4.75	—
l.c.l., works	100 lbs.	5.10	7.00
Sodium molybdate, anhyd., dms., dlvd.	lb.	.88	—
cryst., dms., works	lb.	.69	.73
Monohydrate (see Sodium carbonate monohydrated).			
Naphthionate, bbls	lb.	.70	—
Nitrate, crude, dom., bgs., c.l., works	ton.	47.00	—
bulk, c.l., works	ton.	43.50	—
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac., whse	ton.	51.25	—
bulk c.l., same basis	ton.	47.75	—
USP, bbls., c.l., works, frt. equaid	lb.	.08	—
l.c.l., same basis	lb.	.09½	—
Orthosilicate, conc., dms., c.l., works	100 lbs.	6.30	—
l.c.l., works	100 lbs.	6.65	7.25
hydrated, flake, bbls., c.l., works	100 lbs.	5.40	—
l.c.l., works	100 lbs.	7.30	7.65
Oxalate, 88%, bgs., works	100 lbs.	10.85	—
Para-aminobenzoate (see Sodium p-Aminobenzoate).			
Para-aminosalicylate (see Sodium p-Amino salicylate).			
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald	lb.	.25	—
l.c.l., same basis	lb.	.26½	.33
pellets, bgs., c.l. same basis	lb.	.25	—
l.c.l., same basis	lb.	.26½	.33
powd., bgs., dms., c.l., same basis	lb.	.24	—
l.c.l., same basis	lb.	.25½	.32
Pentachlorophenate, 20,000 lbs., min. truckloads, ¼c per lb. over carlot prices.			
Perborate, NF, tech., bgs., c.l., works	lb.	.173	—
l.c.l., works	lb.	.178	—
Sodium peroxide, dms., c.l., dlvd. E. of Miss	lb.	.1860	—
l.c.l. same basis	lb.	.1910	.196
Phenolsulfonate, USP IX, gran., dms	lb.	.44	.45
Phosphate, dibasic, anhyd., bgs., c.l., frt. equaid	100 lbs.	7.65	—
l.c.l., works	100 lbs.	8.05	—
USP dried powd. bgs., dms., works	lb.	.19	.20½
monobasic anhyd., bgs., c.l., frt. equaid	100 lbs.	8.70	—
l.c.l., frt. equaid	100 lbs.	9.10	9.70
duohydrate, bgs., c.l., frt. equaid	100 lbs.	7.20	—
l.c.l., frt. equaid	100 lbs.	7.60	8.20
tribasic, anhyd., bgs., c.l., frt. equaid	100 lbs.	8.65	—
l.c.l., frt. equaid	100 lbs.	9.05	9.65
cryst., bgs., c.l., t.l., frt. equaid	100 lbs.	4.40	—
l.c.l., frt. equaid	100 lbs.	4.80	5.40
Sodium phosphates in dms., 60c. higher than bgs.			
Prussiate, yellow (see sodium ferrocyanide).			
Pyrophosphate, acid, bgs., c.l., works, frt. equaid	100 lbs.	10.60	—
l.c.l., works	100 lbs.	11.35	11.60
ferric, dms., 1,500-lb. lots, works	lb.	.38½	—
smaller lots, works	lb.	.41½	.43½
tetrabasic, anhyd., bgs., c.l., works, frt. equaid	100 lbs.	7.52½	—
l.c.l., frt. equaid	100 lbs.	7.92½	8.52½
Sodium salicylate, USP, dms	lb.	.74	.76
Sesquicarbonate, bgs., c.l., works.	100 lbs.	2.25	—
l.c.l., dlvd., zone 1	100 lbs.	4.00	4.25
zone 2	100 lbs.	4.25	4.50
zone 3	100 lbs.	4.65	4.80
zone 4	100 lbs.	5.25	5.50
Sales zones are: (1) Atl. States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex. E. of 100°; S of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn., Mo. (except St. Louis), Neb., E. of 98° N. C. S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan. Neb. W of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo. and El Paso, Tex.			
Sesquisilicate, hydrated, bgs., c.l., works	100 lbs.	4.80	—
l.c.l., works	100 lbs.	5.15	—
dms., c.l., works	100 lbs.	5.30	—
l.c.l., works	100 lbs.	5.65	—
Silicate, liq., 40° Be, 1:3.2, turbid, dms., c.l., works	100 lbs.	1.45	—
l.c.l., works	100 lbs.	1.80	2.30
tanks, works	100 lbs.	1.10	—
47° Be, turbid, 1:2.9, dms., c.l., works	100 lbs.	2.10	—
l.c.l., works	100 lbs.	2.70	2.95
tanks, works	100 lbs.	1.75	—



Protect the high quality of your product

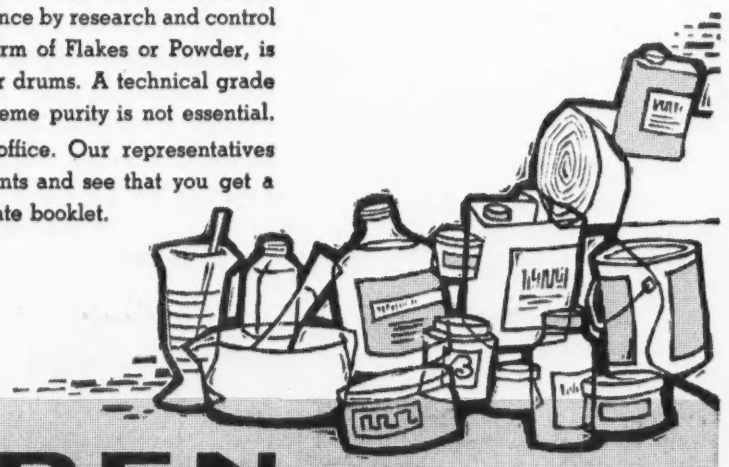
with Heyden

SODIUM BENZOATE

Since all foods and beverages may contain bacteria or molds in varying amounts, a threat to the quality and reputation of your product is always present. To protect flavor, freshness, appearance and taste, Heyden Sodium Benzoate can be used as a safe, effective preservative. It's economical insurance; just 1/10 of 1% will help keep margarine, soft drinks, jellies, juices, condiments and other products from spoiling.

Heyden—a long established producer of Sodium Benzoate—maintains highest purity and uniformity through modern specially designed equipment and close surveillance by research and control chemists. The U.S.P. Grade, in the form of Flakes or Powder, is available in 100, 50 and 25 pound fiber drums. A technical grade is supplied for applications where extreme purity is not essential.

Contact the nearest Heyden sales office. Our representatives will be glad to discuss your requirements and see that you get a copy of our informative Sodium Benzoate booklet.



HEYDEN
CHEMICAL CORPORATION
342 Madison Avenue, New York 17, N.Y.
CHICAGO • CINCINNATI • DETROIT • PHILADELPHIA • PROVIDENCE • SAN FRANCISCO

FINE HEYDEN CHEMICALS

Benzaldehyde • Benzoic Acids • Benzyl Chloride • Beta-Oxynaphthoic Acid • Chlorotoluenes • Creosotes • Formaldehyde • Formic Acid • Guaiacols
Parahydroxybenzoates • Pentaerythritols • Propyl Gallate • Resorcinol • Salicylates • Salicylic Acid • Sodium Benzoate • Sodium Formate

Sodium Silicate—Sumac Leaves

Sodium silicate, liq., 52° Be, turbid, 1:2,4, dms., c.l., works..100 lbs. 2.45 - —
l.c.l., works....100 lbs. 2.80 - 3.30
tanks, works....100 lbs. 2.10 - —
solid, 1:3.2, bgs., works...ton.62.50 - —
Silicofluoride, bgs., c.l., works.lb. .075 - —
l.c.l., works.....lb. .079 - —
Sodium silicofluoride in dms., 0.4c. per lb. higher.
Stannate, dms., works, frt. alld. E..lb. .548 - .602
Sulfa drugs (see Sulfa name).
Sulfanilate, bbls., works.....lb. .22 - —
Sulfate, NF, VII, dried, powd., dms lb. .22½- —
tech., anhyd., bgs., c.l., dlvd. E ton.52.00 - —
detergent, rayon grade, bgs., c.l., works..ton.34.00 - —
bulk, c.l., works..ton.31.00 - —
USP, cryst., fib. dms.....lb. .17½- .18
gran., fib. dms.....lb. .17½- .18
Sulhydrate, flake, 70-72%, dms., c.l., works..lb. .06½- —
l.c.l., works.....lb. .07½- —
liq. 40-44%, tanks, works, 100% basis ton.115.00 - —
Sulfide, flake, dms., c.l., works, E., frt. equald..lb. .05¼- —
l.c.l., same basis.....lb. .06¼- —
fused, bbls., c.l., works E., frt. equald..lb. .04¾- —
l.c.l., same basis.....lb. .05¼- —
Sulfite, anhyd., bgs., c.l...100 lbs. 3.00 - —
l.c.l., same basis.....100 lbs. 3.50 - —
Sodium sulfocyanide, CP (see Sodium thiocyanate).
Tetraborate (see Borax).
Tetrasulfide, liq., 40%, dms., c.l., works..lb. .03½- —
l.c.l., works..lb. .04½- —
Thiocyanate, CP, dms.....lb. .55 - .65
tech., anhyd., 1 ton lots or more, works..lb. .317 - —
less than ton lots, works..lb. .337 - —
Thiosulfate, NF, cryst., bbls...lb. .12½- —
tech. (see Sodium hyposulphite).
Titanate, ctns., c.l., works.....lb. .10½- —
5-ton lots, works.....lb. .10¾- —
1-ton or less, works.....lb. .11 - —
Toluene sulfonate, dms., c.l., or t.l..lb. .38 - —
l.c.l.....lb. .42 - —
Trichloroacetate, 90%, 100-lb. dms., c.l., frt. alld. E..lb. .37½- —
l.c.l., frt. adjusted, E..lb. .39½- —
50 lb. dms., c.l., frt. alld E. lb. .38 - —
l.c.l., frt. adjusted E..lb. .40 - —
10-lb. cns., c.l., frt. alld. E. lb. .44 - —
l.c.l., frt. adjusted E.....lb. .46 - —
Prices on Sodium trichloroacetate W. of the Rockies are 1¾c. per pound higher.
Tripolyphosphate, bgs., c.l., works, frt. equald..100 lbs. 7.87½- —
l.c.l., same basis ....100 lbs. 8.27½- 8.87½
Trisilicate, powd., 1:3.2, bgs., c.l., works...100 lbs. 8.65 - —
l.c.l., works .....100 lbs. 9.40 - 9.60
Sodium trisilicate, powd., dms., c.l., works..100 lbs. 9.05 - —
l.c.l., works .....100 lbs. 9.80 -10.80
Tungstate, tech., kgs., dlvd. E..lb. 2.15 - —
Sodium-ammonium phosphate, bbls., works, frt. equald..lb. .23 - —
Sodium carboxymethyl cellulose(see CMC).
Sodium-cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde sulfoxylate, dms., c.l., dlvd..lb. .21 - —
l.c.l., same basis .....lb. .21½- —
Sodium-zirconyl sulfate, fiber dms., 1,000-lb lots or more works..lb. .28 - —
smaller lots, same basis..lb. .30 - —
Solvent naphtha, coaltar, high flash, tanks, frt. equald..gal. .31 - .32
petroleum (see Petroleum solvent, partial aromatic).
Sorbitan monostearate, fib. dms., 20,000-lb. lots, works..lb. .32 - —
10,000 to 20,000-lb. lots, works. lb. .34 - —
smaller lots, works .....lb. .37 - .39
Tristearate, fib. dms., 20,000-lb. lots, works lb. .33 - —
10,000 to 20,000-lb. lots, works. lb. .35 - —
smaller lots, works.....lb. .38 - .40
Sorbitol, cryst., resin grade, pellets, dms., c.l., works..lb. .23 - —
1 to 5-ton lots, works.....lb. .25 - .26
powd., dms., 1 to 5-ton lots, works..lb. .38 - .39
soln., coml., aqueous, dms., c.l., works..lb. .24¼- —
ton lots, works .....lb. .25 - —
smaller lots, works.....lb. .25¼- —
tanks, works.....lb. .23¼- —
reg. 70% aqueous, dms., c.l., works..lb. .16 - —
Sorbitol, soln., reg. 70% aqueous, dms., ton lots, works..lb. .16¾- —
smaller lots, works..lb. .17 - —
tanks, works.....lb. .15 - —
Soybean meal, 44%, bulk, Decatur. ton.61.50 - —
protein, chemically isolated, bgs., c.l., works lb. .23 - —
mechanically refd., bgs., l.c.l., works..lb. .066 - —
Sparteine sulfate, cns.....oz. .80 - .85
Spearmint leaves, dom., bls.....lb. .75 - —
Spruce extract, liq., reg. tanks, works lb. .01¾- —
powd., super, bgs., c.l., works. lb. .05¼- —
l.c.l., works .....lb. .05½- —
Squill, white, bls .....lb. .16 - .18
powd., bbls., bxs.....lb. .17 - .20
St. John's bread, edible, bls....lb. .13 - .15
Stannic chloride, anhyd., dms., works..lb. .762 - .772
Oxide, dms., dlvd. E.....lb. 1.00 - 1.01
Stannous chloride, anhyd., dms., works lb. .878 - 1.147
hydrous, cryst., dms., works. lb. .77 - .78
Sulfate, dms., works.....lb. .935 - .955
Starch, corn, pearl, paper bgs., c.l., 100 lbs. 7.17 - —
l.c.l. .....100 lbs. 7.32 - —
powd., paper bgs., c.l....100 lbs. 7.29 - —
l.c.l. .....100 lbs. 7.44 - —
Prices for corn starch in cotton bags, 15c. per 100 lbs. higher.
Potato, dom., Idaho, bgs., c.l., works..lb. .06 - —
Maine, bgs., c.l., works....lb. .07¾- Nom.
ex whse, N. Y.....lb. .08¾- .10
Rice, bgs., l.c.l. .....lb. .15½- .16
Wheat, bgs.....lb. .08½- .09
Star root (see Helonias root).
Stargrass Root (see Aletris root).
Stavesacre seed, bgs.....lb. .60 - .61
Stearine oleo (see Oleostearine).
Stramonium leaves, bgs. .....lb. .18 - .20
Streptomycin hydrochloride, bulk, gram. .07 - .0743
Strontium bromide, NF, cns., dms. lb. .80 - 1.05
Carbonate, pure, dms., 5-ton lots or more, works..lb. .35 - —
1-ton lots, works.....lb. .37 - —
tech., dms., works .....lb. .19 - —
Chromate, bbls., works.....lb. .46 - —
Iodide, pars, 25-lb. lots.....lb. 3.60 - —
Nitrate, bbls., c.l., works..100 lbs.11.00 - —
l.c.l., works .....100 lbs.12.00 - —
Salicylate, NF, dms.....lb. 1.78 - —
Sulfate, air floated, 90%, 325 mesh, bgs., works..ton.56.70 -66.15
Strophanthin, K., bots.....oz.25.00 -25.50
G. (see Ouabain, USP).
Strophanthus seed, Kombi, biologically tested, bgs lb. 3.50 - 3.75
Strychnine, NF, powd., cns., 100-oz. lots oz. 1.10 - —
Phosphate, NF, cns., 100-oz. lots.oz.1.14 - —
Sulfate, USP, cryst., cns., 25-oz. lots..oz. .96 - —
powd., 100-oz. lots.....oz. .85 - —
Styrax, USP, cs.....lb. .78 - .80
Styrene monomer, polymer grade, 99½%, dms., c.l., frt. alld. lb. .22½- —
l.c.l., same basis.....lb. .23½- —
tanks, same basis.....lb. .21½- —
synthetic rubber grade, 99%, dms., c.l., frt. alld..lb. .18 - —
l.c.l., same basis.....lb. .19½- —
tanks, same basis.....lb. .16 - —
Styroyl acetate, bots.....lb. 1.45 - 1.70
Sucrose, crude, bgs., dlvd., N. Y. lb. .0555- —
refd., white, bgs., refy., E....lb. .0855- —
Octa-acetate, denaturing grade, 100-200-lbs., bgs., l.c.l., works lb. .76 - —
Sugar (see Sucrose, crude, refined).
Sulfabenzamide, dms.....lb. 4.00 - 4.50
Sodium, dms .....lb. 4.10 - 4.60
Sulfacetamide, fib. dms.....lb. 4.00 - 4.20
Sodium fib. dms.....lb. 5.00 - 5.20
Sulfadiazine, USP, microcrystals, dms..lb.10.60 -11.10
powd., dms.....lb.10.25 -10.75
Sulfadiazine-sodium, USP, dms..lb.11.25 -11.75
microcrystals, dms. .....lb.11.60 -12.10
Sulfaguanidine, USP, dms.....lb. 2.50 - —
Sulfamerazine, USP, microcrystals. lb.10.65 -11.15
Sulfamerazine-sodium, USP, dms., lb.11.25 -11.75
Sulfamethazine, microcrystals, dms., lb. 8.90 - 9.40
powd., dms.....lb. 8.50 - 9.00
Sulfanilamide, USP, 30-80 mesh., dms lb. 1.40 - 1.60
microcrystals, dms. .....lb. 1.70 - 1.90
powd. dms.....lb. 1.30 - 1.50
Quinoxaline, veterinary, dms lb. 6.40 - 6.75
Sulfapyridine, NF, powd., bots. tins. lb. 7.00 - 7.50
Sulfapyridine-sodium, monohydrate, dms lb. 7.50 - 8.00
Sulfathiazole, USP, microcrystals, dms. lb. 2.85 - 3.00
powd., dms.....lb. 2.50 - 2.65
Sulfathiazole-sodium, USP, dms. lb. 2.75 - 2.90
Sulfur, coml., flour, bgs., mines 100 lbs. 2.30 - —
bbls., mines .....100 lbs. 3.05 - —
lump, bgs., mines.....100 lbs. 2.20 - —
bbls., mines.....100 lbs. 2.65 - —
crude, bulk, c.l., mines, contract. long-ton.26.50 - —
export, f.o.b. vessels, Gulf ports..long-ton.28.00 -31.00
domestic and Canada, f.o.b. vessel Gulf port..long-ton.28.00 - —
refd., flowers, USP, bgs., mines. 100 lbs. 4.00 - —
bbls. .....100 lbs. 5.25 - —
flour, light bgs., mines..100 lbs. 3.60 - —
bbls., mines .....100 lbs. 4.50 - —
lump, bgs., mines.....100 lbs. 3.30 - —
rolls, bgs., mines.....100 lbs. 3.85 - —
bbls., mines .....100 lbs. 4.40 - —
salt block, bgs., mines .100 lbs. 3.50 - —
virgin block, bbls., mines. 100 lbs. 3.45 - —
rubbermakers, coml., reg., bgs., mines..100 lbs. 2.40 - —
bbls., mines 100 lbs. 3.55 - —
98-100% passing through 325 mesh, bgs., mines 100 lbs. 2.50 - —
bbls., mines.....100 lbs. 3.65 - —
refd., bgs., mines.....100 lbs. 3.25 - —
bbls. mines .....100 lbs. 4.30 - —
treated, 2.5% mineral oil, bgs., mines..100 lbs. 2.70 - —
bbls., mines..100 lbs. 3.85 - —
10% pine tar, bgs., mines. 100 lbs. 3.90 - —
Bichloride, dms., c.l., works, frt. equald..lb. .04 - —
l.c.l. same basis.....lb. .04¾- —
tanks, same basis.....lb. .03¾- —
Dioxide, liq., coml., cyls., works, frt. equald..lb. .10 - .12
multi unit cars, works..lb. .0535- —
tanks, works .....lb. .045 - —
refrigeration, 150-lb. cyls., dlvd. lb. .30 - —
Monochloride, 55-gal. dms., c.l., frt. equald. lb. .04 - —
l.c.l., same basis.....lb. .04¾- —
tanks, same basis.....lb. .03¾- —
Sumac leaves, 28% tannin, bgs., ex-dock..ton.132.00 - —
ground, bgs., ex-dock....ton.127.00 - —

PROGRESS THROUGH CHEMISTRY
Davison...leader in Silica Gel
Davison pioneered in the development of the first commercially useful silica gel more than three decades ago, and for years has been America's leading producer. Silica gel, with its porous amorphous physical structure providing a surface area of 90,000 square feet per cubic inch, is a unique compound of continuing importance and increasing application. Silica gel's most important properties are its ability to condense and retain condensable gases in the porous structure and its regenerable nature through the application of heat or other elutriation methods. A wide variety of particle sizes, densities and adsorptive capacities are available, each having been developed to meet specific application demands. Investigate Davison Silica Gel, now.
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Baltimore 3, Maryland
Sales Offices: Baltimore, Md.; Chicago, Ill.; Columbus, Ohio; Houston, Texas; New York, N. Y.
Producers of: Catalysts, Inorganic Acids, Superphosphates, Triple Superphosphates, Phosphate Rock, Silica Gels, Silicofluorides:
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ask for . . .
Davison Silica Gel for the dehydration of air and gas.
Syloid® 308 . . . lacquer flatting agent.
Syloid® AL-1 . . . prevents gas build-up in metallic paint.
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Syloid® 162 . . . alkyd-urea varnish flatting agent.
Syloid® 244 . . . superior flatting agent in clear alkyd finishes and oleoresinous varnish.

Superphosphate, run-of-pile, under 22% a.p.a. pulv., bulk, c.l., Baltimore, unit-ton. .88 - .91
Carteret, N. J. unit-ton. .88 - .91
triple, 48% or more, a.p.a., pulv., bulk, c.l., East Tampa, Fla. unit-ton. .98 - —

T

2,4,5-T, dms., c.l., works, frt. equald. lb. 1.18 - —
l.c.l., same basis lb. 1.25 - —
Isopropyl ester, dms., c.l., works, frt. equald. lb. 1.24 - —
l.c.l., works lb. 1.29 - —
Talc, dom., ord., Calif., grd., bgs., c.l., works ton.33.00 -39.50
Vermont off color grd., bgs., c.l., works ton.19.40 - —
l.c.l., works ton.37.00 - —
fibrous, New York, grd., bgs., c.l., works ton.28.00 - —
l.c.l., works ton.31.00 -36.00
99.5%, 325 mesh, bgs., c.l., works ton.31.00 - —
l.c.l., works ton.34.00 - —
99.95% micronized, bgs., works ton.38.00 - —
imp., Canadian, grd., bgs., c.l., mines ton.20.00 -35.00
Tallow, edible, tanks, dlvd. lb. .11 - —
inedible, extra, tanks, dlvd. lb. .06⅝- —
fancy, bleachable, tanks, dlvd., lb. .06⅞- —
guaranteed, dms., f.a.s. lb. .08⅜- —
No. 1, tanks, dlvd. lb. .06⅜- —
special tanks, dlvd. lb. .06½- —
sulfonated, 25%, bbls., l.c.l. lb. .08¾- .09
50%, bbls., l.c.l. lb. .09¾- .10¼
Tankage, animal, teeding, 9-11% ammonia, bulk unit-ton. 4.25 - —
Chicago, bulk unit-ton. 5.25 - —
Tapioca flour, Brazilian, bgs., ex whse. lb. .08½- .10
Siamese, med., bgs., ex whse. lb. .06¼- .06¾
Tar acid oil, 15-18%, dms., c.l., frt. equald. gal. .47 - .49
l.c.l., same basis gal. .50 - .51
tanks, same basis gal. .39 - —
25-28%, dms., c.l., same basis, gal. .54 - .56
l.c.l., same basis gal. .57 - .58
tanks, same basis gal. .46 - —
50-53%, dms., c.l., same basis, gal. .70 - .72½
l.c.l., same basis gal. .73½- .74½
tanks, same basis gal. .62½- —
Coal (see Coaltar).
Tartar, emetic (see Antimony-potassium tartarate).
Terpine glycol ether, dms., c.l., works lb. .23½- —
l.c.l., works lb. .25½- —
tanks, works lb. .22 - —
Hydrate, NF, cryst., powd., fib. dms lb. .67½- .74
Terpineol, dms., l.c.l, dlvd. E lb. .20¾- —
extra, dms lb. .41 - .60
prime, dms lb. .30 - .45
Terpinyl acetate, extra, cns., dms. lb. .60 - .75
prime, dms lb. .55 - .70
Propionate, dms lb. 1.75 - 2.00
Terra alba (see Gypsum).
Testosterone, USP, 100-gm. lots, bots. gram. .70 - —
Propionate, USP, 100-gm. lots, bots gram. .68 - —
Tetrachloroethane, dms., works lb. .14½- —
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Tetrachloroethylene, tech (see Perchloroethylene).
USP 55 gal. dms., works lb. .20½- .21½
smaller dms., works lb. .23½- .25
Tetraethyl orthosilicate, dms., c.l., dlvd. E. lb. .61½- —
l.c.l., dlvd. E lb. .62½- —
Pyrophosphate, 40%, cns., dms., frt. equald. lb. .75 - —
Tetraethylenepentamine, dms., c.l., dlvd. E lb. .49 - —
l.c.l., dlvd. E lb. .50 - —
tanks, dlvd. E lb. .47 - —
Tetrahydrofuran, dms., c.l., or t.l., works lb. .36½- —
l.c.l., or l.t.l., works lb. .37 - —
tanks, works lb. .35 - —
Tetrapotassium phosphate (see Potassium phosphate).
Thallium metal, dlvd lb.12.50 -15.00
Sulfate, 99%, bots., dlvd lb. 8.00 -13.00
Theobromine, NF, fib. dms lb. 3.25 - —
And sodium acetate, USP, fib. dms. lb. 4.00 - —
Sodio-Salicylate, NF, fib. dms lb. 3.30 - —
Theophylline, anyhd. or USP, 100-lb. dms. lb. 3.65 - —
Thiamine hydrochloride, USP, regular or ampul-type, fib. dms. lar fib. dms. kilo.60.00 - —
ampule grade kilo.62.00 - —
Mononitrate, USP, fib. dms. kilo.62.00 - —
Thiocarbanilide, dms., ton lots lb. .72 - —
less tons lots lb. .74 - —
Thiodiphenylamine (see Phenothiazine).
Thiourea, tech., dms., c.l., frt. alld. lb. .36 - —
l.c.l., works lb. .38 - —
Thorium nitrate, purif., fig. dms., 100-lb. lots or more, works lb. 3.50 - —
dl-Threonine, bots., 1-kilo lots. kilo.450.00 -500.00
Thyme leaves, French, bgs. lb. .19 - .22½
Spanish, bgs. lb. .09 - —
Thymol, fib. dms lb. 2.50 - 2.75
Iodide, NF, dms. lb. 7.30 - —
Timbo root (see Cube root)
Tin chloride (see Stannous chloride, anhydrous).
crystals (see Stannous chloride, hydrous).
Oxide (see Stannic oxide).
Metal (Straits) lb. .94 - —
Sulfate (see Stannous sulfate).
Tetrachloride anhyd., (see Stannic chloride, anhydrous).
Titanium dioxide anatase, chalk-resistant, bgs., c.l., dlvd. lb. .24½- —
l.c.l., dlvd. lb. .25½- —
ceramic, bgs., c.l., dlvd. lb. .22½- —
l.c.l., dlvd. lb. .23½- —
reg., bgs., c.l., dlvd. lb. .22½- —
l.c.l., dlvd. lb. .23½- —
metallurgical, nat., gran., bgs., c.l., f.o.b. Jacksonville, Fla. ton.120.00 - —
Niagara Falls, N. Y., c.l., ton.137.50 - —
5-ton lots ton.142.50 - —
ton lots ton.147.50 - —
rutile, nonchalking, bgs., c.l., dlvd. E. lb. .26½- —
l.c.l., dlvd. E. lb. .27½- —
Milled titanium dioxide, $7.50 per ton higher.
Hydride, cns., works lb. 7.95 - 9.00
Pigment, calcium-rutile base, reg., bgs., c.l., dlvd. lb. .09¼- —
l.c.l., works lb. .09¾- —
high-tinting, dms., c.l. lb. .09 - —
l.c.l. lb. .09½- —

Titanium tetrachloride, tech., dms., c.l., works lb. .40¾- —
l.c.l., works lb. .43¾- —
tanks, works lb. .39¾- —
dl-a-Tocopherol, bots. kilo.149.65 - —
Acetate kilo.136.00 - —
d-a-Tocopherol acetate kilo.185.00 - —
Acid succinate kilo.165.00 - —
o-Tolidine, base, paste, 100% basis, kgs. lb. 1.35 - —
dry, 100% basis, kgs lb. 1.40 - —
Hydrochloride, paste, 100% basis, lb. 1.35 - —
Tolu balsam, cns lb. 4.25 - 4.50
Toluene (see Toluol).
p-Toluenesulfonamide, powd., dms., works lb. .70 - —
m-Toluidine, dms., c.l., works, frt. alld lb. .79 - —
l.c.l., same basis lb. .80 - —
tanks, same basis lb. .78 - —
o-Toluidine, dms., c.l., works, frt. alld lb. .23 - —
l.c.l., same basis lb. .24 - —
tanks, same basis lb. .22 - —
p-Toluidine, flake, dms., frt. alld. lb. .64 - —
solid, dms., frt. alld lb. .60 - .61
Toluol, coaltar, indust. or nitration, tanks, works:—
Bethlehem, Pa gal. .32 - —
Birmingham dist gal. .32 - —
Chicago, dist gal. .32 - —
Cleveland dist gal. .32 - —
Geneva, Utah gal. .26 - —
Johnstown, Pa gal. .32 - —
Lackawanna, N. Y. gal. .32 - —
Lone Star, Tex gal. .33 - —
Lorain, Ohio gal. .32 - —
Middletown, Ohio gal. .33½- —
Minnequa, Colo. gal. .32 - —
Philadelphia dist gal. .32 - —
Pittsburgh dist gal. .32 - —
Sparrows Point, Md. gal. .32 - —
Terre Haute, Ind gal. .35 - —
Youngstown, Ohio gal. .32 - —
Toluol, petroleum, indust., 2°, tanks, works:—Albany, N. Y. gal. .35 - —
Bayonne, N. J. gal. .34 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill. gal. .33 - —
Detroit, Mich gal. .33 - —
Houston, Tex gal. .33 - —
Philadelphia, Pa. gal. .34 - —
Providence R. I. gal. .35 - —
Wood River Ill. gal. .25 - —
2,4-Tolylenediamine, cryst., fib. dms., c.l., frt. alld lb. .97 - —
l.c.l., frt. alld lb. 1.00 - —
powd., fib. dms., same basis lb. 1.00 - —
Tonka beans, Angostura, cks lb. 1.65 - 1.80
Brazilian, Surinam, cs lb. 1.00 - 1.25
Totaquine 100-oz. lots, cns oz. .42 - —
Toxaphene, dms., c.l., t.l., works lb. .21 - —
l.c.l., l.t.l., works lb. .27 - —
Triacetin, dms., c.l., dlvd. E. of Rockies lb. .39 - —
l.c.l., same basis lb. .40 - —
tanks, same basis lb. .37 - —
Tributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .42 - —
l.c.l., frt. alld. E. of Denver, lb. .43 - —
tanks, frt. alld. E. of Denver, lb. .40 - —
Phosphate, dms., c.l., works lb. .52 - —
l.c.l., same basis lb. .53 - —
tanks, same basis lb. .50 - —
Tributylamine, dms., c.l., works lb. .67 - —
l.c.l., same basis lb. .68 - —
tanks, same basis lb. .65 - —
Trichlorobenzene, dms., c.l., frt. alld. E lb. .14½- —
l.c.l., frt. alld. E lb. .15½- —
tanks, frt. alld. E lb. .13 - —
Prices in the West 1¾c. higher.
Trichloroethylene, dms., c.l., or t.l. works, frt. equald lb. .11¾- —
l.c.l., dlvd. E lb. .13¾- —
tanks, works, frt. equald lb. .10¾- —
1,1,1-Trichloroethane, dms., c.l., works lb. .13½- —
l.c.l., works lb. .16¼- —
tanks, works lb. .12½- —
Tricholine citrate, 65% soln., ret. cbys. works, frt. adjusted lb. 1.40 - 1.45
Tricresyl phosphate, coaltar, dms., c.l., dlvd lb. .36½- —
l.c.l., dlvd lb. .37½- —
tanks, dlvd lb. .34½- —
petroleum, dms., c.l., dlvd lb. .36½- —
l.c.l., dlvd. lb. .37½- —
tanks, dlvd. lb. .34½- —
Triethanolamine, dms., c.l., dlvd. E lb. .24 - —
l.c.l., same basis lb. .25 - —
tanks, same basis lb. .22 - —
Triethylamine, dms., c.l., works, dlvd. E lb. .47 - —
tanks, same basis lb. .45 - —
Triethyl citrate, refd., tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .45¾- —
l.c.l., frt. alld. E. of Denver, lb. .46¾- —
tanks, frt. alld. E. of Denver, lb. .43¾- —

beauty—and it is also true that the contering army of Sherman has committed, upon city proper, no needless desolation. Never, haps, have ently occu y of the si m more i n than th this splen l notwith t stated, t ect. The closed v rything li , give a whole j niless. Tu rces from solutely or herous imp t them th ted by th knowing ston have, erted starv nimous and e North h e heart of h acts c y other w od and od work p re help. nce are alm ll do wh ; but th the North e time bei is connect ur busine ming to nply. To home, or e existing ate of Ge tion of tr before sai r anythin Pre With reg rposes of eat discri nclusions. overnment ntrary, the citizens are unexceptionally respectful and courteous in their department. At willingness to work which we find in others, and when the opening spring brings with it the labor of the garden and field, all will find abun- wives and children are free. At ten minutes to three o'clock, 11th day of Jan. 1865, Missouri struck the shackles from the limbs of every to cure, boring out the life of the tree sought only that of the worm. But n erfect either in theory or practice, a fine apple ccession, v with fruit. the secon ant. So he at " he w e no usele ear apples, '" I would tree; fath solutes, " hat he w g him." ther of se l a ladde hard; order to drag th ittle thou the house Ben surveye atter of sl defence of cried out dlf when I'm sick of ke-believe n, all lai lts! I wo r Scotch la of regret up into th mb; but se of his he, still d the lad its topmo and twig surprise tle Charle ocean fro nch is the Charley!" st the la of the br time the pet and hero of the family. years the dust of death had been ga

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Methyl Ethyl Ketone
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Ethyl Amyl Ketone
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Hexylene Glycol
Methyl Isobutyl Carbinol
Diacetone Alcohol
Secondary Butyl Alcohol
Isopropyl Ether

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SHELL

Triethyl phosphate, dms., c.l., dlvd. lb. .40 - —
l.c.l., dlvd. lb. .41 - —
tanks, same basis lb. .38 - —
Triethylene glycol, dms., c.l., dlvd. E lb. .20½- —
l.c.l., same basis lb. .21½- —
tanks, same basis lb. .18½- —
Triethylenetetramine, dms., c.l., dlvd. E lb. .49 - —
l.c.l., dlvd. E lb. .50 - —
tanks, dlvd E lb. .47 - —
Tri-isopropanolamine, dms., c.l., dlvd. E. lb. .22¾- —
l.c.l., dlvd. E lb. .23¾- —
tanks, dlvd. E lb. .20¾- —
Trimethylamine 25-40% soln., dms., c.l., works, frt equald., 100% basis lb. .42 - —
l.c.l., works, frt equald, 100% basis lb. .42½- —
tanks, works, frt. equald, 100% basis lb .33 - —
Trioxane, pure dms., c.l., t.l., dlvd. E lb. .50 - —
l.c.l., dms., dlvd. E lb. .51½- —
Tripentaerythritol, bgs., l.c.l., works. lb. .35 - —
Triphenyl phosphate bbls., c.l., frt. equald lb. .40 - —
Triphenylguanidine, bbls., works lb. .90 - —
Tripropylene glycol, dms., c.l., frt. alld E lb. .20½- —
l.c.l., frt. alld. E lb. .21½- —
Prices 1c per lb. higher in West.
Trisodium fluoroacetate (see Sodium fluoroacetate, tribasic).
Phosphate (see Sodium phosphate tribasic).

dl-Tryptophane, fib. ctns., works. kilo.165.00 - —
Tungsten metal powd., 2-5 microns, dms., works lb. 4.85 - —
Turpentine, gum (see Protective Coatings market, Naval Stores).
Tyrothricin, USP, bots gram. .75 - .85
l.c.l., frt. equald lb. .41 - —

U

Unicorn root, false (see Helonias root).
True (see Aletris root).
Urea, 46% N, indust., bgs., c.l., t.l., dlvd. E ton.120.00 - —
l.c.l. dlvd. E, ex whse ton.140.00 - —
45% N, agricultural, bgs., c.l., (30 tons), dlvd., E ton.105.00 - —
Urea-ammonia liquor, A and B grades N basis, tankcars, Belle, W. Va ton.126.00 - —
Urea-ammonia, liquor, C grade, tankcars, same basis ton.124.50 - —
37 grade tankcars, same basis. ton.152.00 - —
Urethane, USP, dms lb. 1.45 - —
Uva-ursi leaves, bls lb. .12 - .14

V

Valerian root, Belgian, bgs lb. .32 - —
dl-Valine, dms., works lb.21.00 -27.50
Valonia beards, 40-42% tannin, bgs., ex dock ton.75.00 -76.00
cups, 28-30% tannin, bgs., ex-dock ton.58.00 - —
Valonia extract, powd., 63% tannin, bgs., ex-dock, duty extra lb. .08½- —
Vanadium pentoxide, tech., dms., works lb. 1.28 - 1.33
Vanilla beans, Bourbon, tins lb. 7.50 - —
Mexican, cuts, tins lb. 6.75 - 7.00
whole, tins lb. 7.50 - 8.00
Tahiti, cs. lb. 6.25 - —
Vanillin, ex eugenol, tins, 25-lb. lots. lb. 6.50 - 6.75
smaller lots lb. 6.90 - 7.25
ex lignin, dms., 100-lb. lots lb. 2.75 - —
smaller lots lb. 2.80 - 2.85
Vinyl acetate monomer, 55-gal. dms., c.l., dlvd. E lb. .18½- —
l.c.l., dlvd. E lb. .19½- —
tankcars, dlvd. E lb. .16½- —
tanktrucks, less than 4,000 gal., dlvd. E lb. .17½- —
n-Butyl ether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Chloride monomer, tanks, works lb. .11 - .12
Ether, USP, anesthesia, bots., 50 c.c., hospitals bot. 1.12 - —
75 c.s. bot. 1.56 - —
tech., dms., c.l., works lb. .26 - —
c.l. works lb. .28 - —
tanks works lb. .25 - —
Isobutyl ether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Methyl ether, cyls., works lb. .23 - —
tanks, works lb. .20 - —
Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.

Vinyl propionate monomer, dms., c.l., dlvd lb. .49 - —
l.c.l., same basis lb. .50 - —
tanks, same basis lb. .47 - —
Trichloride (see Trichloroethane).
2-Vinylpyridine, 10 dms. to tanks, works lb. 1.36 - —
1 to 9 dms, works lb. 1.50 - —
tanks, works lb. 1.33 - —
Vinyltoluene, dms., c.l., frt. alld lb. .18½- —
l.c.l., frt. alld. lb. .19½- —
tanks, frt. alld. lb. .16 - —
Viosterol, in alcohol, 1,000,000 D units per gram, bots., lots of 10 billion USP units, 1,000,000 units. .025 - —
lots of 1 billion USP units, 1,000,000 units. .03 - —
lots of less than 1 billion USP units 1,000,000 units. .035 - —
in nat. vegetable oil, 400,000 to 1,000,000 D units per gram, bots., lots of 10 billion USP units 1,000,000 units. .02 - .04¾-
lots of 1 billion USP units, 1,000,000 units. .025 .05¼
lots of less than billion USP units, 1,000,000 units .03 .05¾
Vitamin A acetate, syn., crystalline, beads 500,000 A units per gram gram. .07¼- —
dry, 500,000 units per gram, kilo lots kilo.67.50 - —
325,000 units per gram, same basis kilo.43.88 - —
250,000 units per gram, same basis kilo.33.75 - —
Dry vitamin A acetate in less than kilo lots, $2.50 per kilo higher in all potencies.
liq., in oil, 1,000,000 A units per gram 1,000,000 units. .10 - —
Palmitate, liq., 1,000,000-1,800,000 A units per gram 1,000,000 units. .10 - —
in oil, 1,000,000 A units per gram 1,000,000 units. .10 - —
B_1 (see Thiamine hydrochloride).
B_2, (see Riboflavin).
B_6 complex natural (see Rice bran concentrate and Yeast).
B_{12}, crystalline, 1-gram or 5-gram vials gram.245.00 - —
oral grade solids, in containers of 1 and 5 grams of B_{12} activity gram.185.00 - —
C (see Acid, ascorbic).
D (see Oils, codliver and fish-liver Calciferol, and Viosterol)
D_2, dry 850,000 units per gram, kilo lots kilo.42.50 - —
less than kilo lots kilo.45.00 - —
E (see a-Tocopherol and Oil, wheat germ).
G (see Riboflavin).
H (see Biotin).
K Active (see Menadione).
K_1, 25 gram bots gram. 4.50 - —
Violet methyl toner (see Blue methylviolet toner)
V.M.&P. naphtha (see Petroleum naphtha).

W

Wahoo root, bark, bls. lb. 2.25 - —
Warfarin, 0.5%, dms., 50-lb. lots, dlvd lb. 1.95 - —
25-49-lb. lots, N. Y. or Chicago. lb. 2.05 - —
5-24-lb. lots, cns., N. Y. or Chicago lb. 2.15 - —
Wattle bark, fair average, African, bales, ex dock ton.99.00 - —
merchantable, bales, ex dock ton.96.00 - —
extract, liq., 35% tannin, bbls. lb. .08¼- .08⅝
solid, E. Africa, 60% tannin, bgs., ex dock, duty extra lb. .09⅜- —
S. Africa, 60% tannin, bgs., ex dock, duty extra lb. .10 - —
Wax, amorph, (see Wax micro crystalline).
Bayberry, bgs lb. .45 - .47
Bees, crude, African, bgs lb. .67 Nom.
Brazilian, bgs. lb. .70 - .72
Central American, bgs. lb. .69 - .70
Chilean, bgs lb. .70 - .72
refd., USP, bleached, white bricks, 100-lb. ctns lb. .80 - .82
slabs, 100-lb. ctns lb. .79 - .81
yellow bricks, 100-lb. ctns. lb. .71 - .73
slabs, 100-lb. ctns lb. .69 - .71
Candelilla, crude, bgs lb. .72 - .73
refd., bgs lb. .76 - .77
Powdered candelilla, 20 mesh 7c. per lb. higher, 80 mesh 7c.; 100-200 mesh 8c.
Carnauba, chalky, bgs., ton lots. lb. .72 - .74
North country No. 2, crude, bgs., ton lots lb. .80 Nom.
refd., pure, bgs., ton lots lb. .88 - .90
No. 3, Ceara, crude, bgs., ton lots lb. .74 - .76
refd., pure, bgs., ton lots lb. .83 - .85
tech, bgs., ton lots lb. .75 - .76
Parnahyba, crude, bgs., ton lots lb. .75 - .77
refd., pure, bgs., ton lots lb. .83 - .85
yellow No. 1, Ceara, bgs., ton lots lb. 1.38 - 1.40
Parnahyba, bgs., ton lots lb. 1.40 - 1.45
Powdered carnauba wax price differentials same as powdered candelilla.
Japan, cs. lb. .47 - .49
Microcrystalline, 170-175° F., m.p., ASTM, penertation 15-20 ctns., 20,000 lbs., group 3, works. lb. .14 - .15
smaller lots, same basis. lb. .15 - .16
black, ctns., 20,000 lbs., same basis lb. .12½- .13¼
smaller lots, same basis. lb. .13½- .14¼
white, ctns., 20,000 lbs., same basis lb. .25 - .26
smaller lots, group 3, works lb. .26 - .27
180°-185°F., m.p., ASTM, penetration, 7-11; amber, ctns., 20,000-lb. lots, same basis lb. .17 - —
smaller lots, same basis. lb. .18 - —
black, ctns., 20,000 lbs., same basis lb. .15½- —
smaller lots, same basis. lb. .16½- —
white, ctns., 20,000 lbs., same basis lb. .28 - —
smaller lots, same basis. lb. .29 - —
100°-195°F., m.p., ASTM, penetration 2-7, amber, ctns., 20,000 lbs., same basis lb. .21 - —
smaller lots, same basis. lb. .21½- —
black, ctns., 20,000 lbs., same basis lb. .19 - —
smaller lots, same basis. lb. .19½- —
white, ctns, 20,000 lbs., same basis lb. .34½- —
smaller lots, same basis. lb. .35½- —
Montan, dom., refd., bgs lb. .28 Nom.
imp., crude, Bohemian, bgs. lb. No prices.
German, bgs. lb. No prices.

—Continued on page 67

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In tests conducted by the Wisconsin Alumni Research Foundation—12 month tests at 30 day intervals—showed no loss of potency of Bo-Dee Mineral Stable Vitamin D_3 when mixed with the following minerals:

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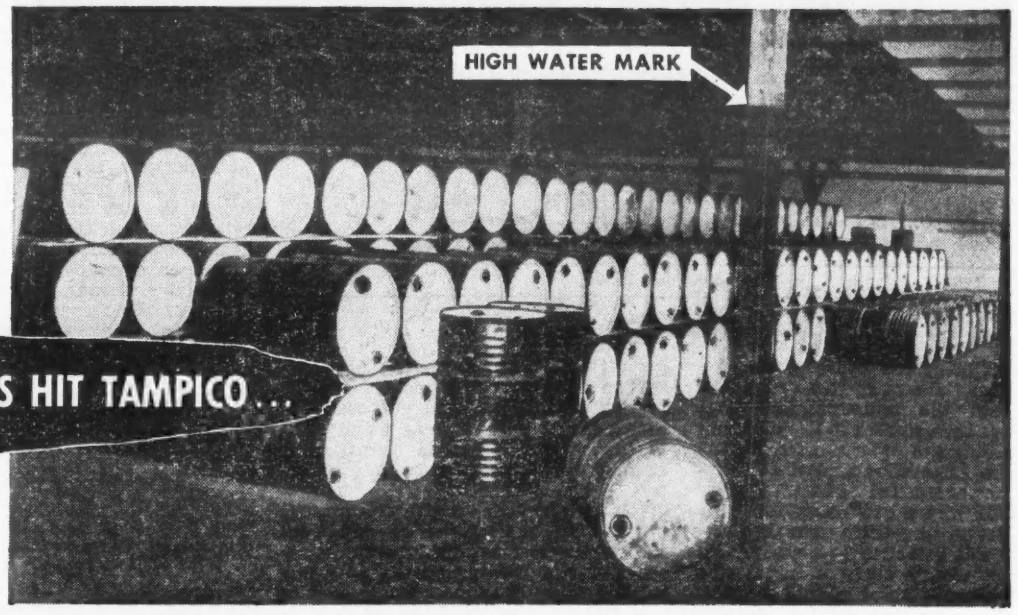
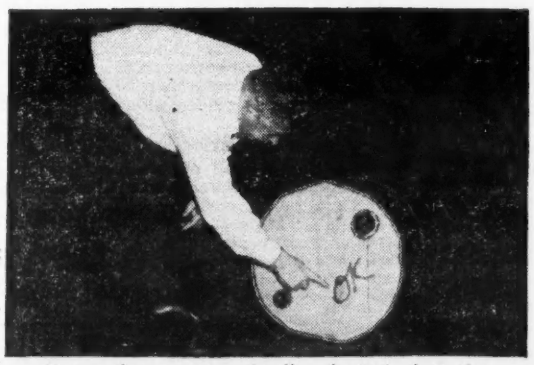
All of these drums in the Pemex storage shed were completely immersed when the Panuco River overflowed.



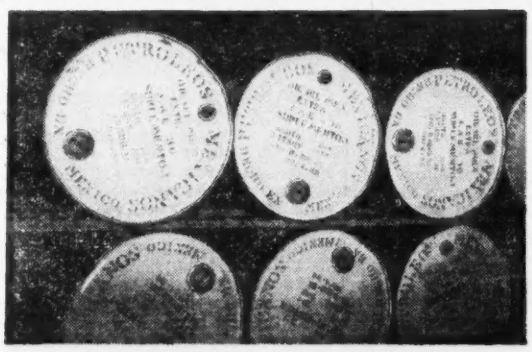
WHEN TWO HURRICANES HIT TAMPICO...

Sealed PEMEX drums were kept leak-proof by *Tri-Sure*® Closures

drums were immersed for 6 days



Many drums were badly dented, but the Tri-Sure Closures remained in sound condition.



Free of leakage! After inspection and sampling every one of these Tri-Sure equipped drums was salvaged and re-sealed.

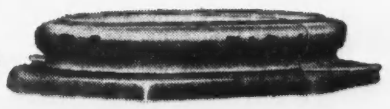
Two of the severest hurricanes in years—Hilda and Janet—recently hit Tampico, Mexico. Terrific floods tore away and crumbled the massive cement docks of the Petroleos Mexicanos refinery, and immersed over 600 Pemex oil drums, all of which were equipped with Tri-Sure* Closures.

For six days these drums were under water, and subjected to constant battering by powerful currents. When the water had finally receded, the Tri-Sure seals were removed and the contents carefully inspected. It was found that the contents of *every single drum* was free of contamination—proving perfect protection against leakage.

As in other catastrophes this performance proves again that the safest place for any liquid product, *under any conditions*, is a Tri-Sure equipped container.

*The "Tri-Sure" Trademark is a mark of reliability backed by over 35 years serving industry. It tells your customers that genuine Tri-Sure Flanges (inserted with genuine Tri-Sure dies), Plugs and Seals have been used.

Always specify **Tri-Sure** Reg. U. S. Pat. Off. **CLOSURES**

The Sign of a  **Perfect Seal**

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A Desirable Unification

Mergers being the order of the day in all industrial and related areas, it is likely that the announcement that steps have been started in the direction of succeeding the American Drug Manufacturers Association and the American Pharmaceutical Manufacturers' Association with a new national organization comprising their present memberships will be taken in stride by all those to whom such a movement should naturally be of special interest. The objective of the movement is not a new one. Amalgamation of the two associations, whose interests, problems, and activities are in very large part identical and whose respective memberships include many of the same companies, has been suggested, proposed, and discussed more or less officially at various times, and has been widely advocated in the drug industry and trade for a long time. It is desirable. There is no logical reason why it should not be consummated.

There are, of course, a number of differences in the construction and operation of the two organizations; although they have become much more alike in various respects since the days of their institution. None of the remaining differences is of fundamental significance or operational importance. The successful working partnership of the two in the joint contact committee having to do with the very important relations of the drug industry with the Food and Drug Administration testifies clearly to their community of interests and purposes and to their ability, as well as willingness, to cooperate under such coordination as may be necessitated by minor factors.

It will take time to give the present proposal of unification the consideration which it must have, even in respect of minor factors, such as membership classifications. That consideration has been put in quite capable hands by both parties. It is earnestly to be desired that all members of both associations will recognize their responsibility and actively accept their duty to contribute their views on every aspect of the proposal to their representatives on the respective committees that have been set up for thorough study of all its angles of incidence and consequence. The national status of the drug industry is so importantly essential in serious matters of public welfare that there must be no petty bickerings over details in the endeavor to make its functioning in that service still more effective. There is no need for any fundamental change in that respect. But, practicable improvement can be effected by way of the better integrated exploratory and advisory potentialities of a single organization properly representative in scope and purpose of all that must contribute to that effectiveness.

Help for the World

Peering through the variously, largely unnecessarily polluted atmosphere surrounding the congressional messing with and mussing up of what should be this country's policy with reference to its responsibilities and duties in world relations, it is not difficult for a normal-vision observer to see that the desirable goal cannot be reached by way of politically prescribed and administered financial aid. He will admit that assistance from this country is necessary to meet Soviet challenges in countries unable to stand up to them; but he will not accept the quite prevalent opinion that foreign aid should consist of "spending" which in large part is alms-giving. He is strongly inclined to believe that the under-developed peoples would be better served in their psychological, as well as their physical, needs by being provided first with markets at home and abroad for what they are in position to sell for a living, and subsequently assisted — by private lending of money, methods, and men— to keep the supply up with the demand.

There has been some encouragement for those who think along such lines in the refusal of the foreign relations committee of the United States Senate to write into the foreign aid bill a restriction on imports into this country. But, they feel that, even though some measure of support for foreign aid by way of trade may come out of the senate finance committee's deliberations, beginning this week, on customs simplification, the good will be far too little and too late in various respects.

The expectations of those who put a realistic evaluation upon the relative potentialities of public aid and private trade in the development and maintenance of economic stability in the free world are not very rosy in the direction of the chances of congressional action on the proposal of United States affiliation with the Organization for Trade Cooperation. There is still enough last-century economic thinking among members of congress to block any adequacy of consideration for the greater desirability of bigger foreign markets for farm products in comparison with that other gigantic venture in the "stabilizing" of economic conditions by means of handouts.

While it must be admitted that a goodly measure of revision in thinking and acting would be essential, it should be widely recognizable that the OTC supplementing of GATT potentialities presents an opportunity for substantially increasing the favorable balance of this country's foreign trade, with consequent widely distributed benefits.

Coal Has Much to Do

Undoubtedly there is much to be learned from what the director of central laboratories of the state mines at Limburg, Holland, will have to say to the American section of the Society of the Chemical Industry June 29 about technological progress in the coal industry. Undoubtedly there is much to be learned in related economic areas of thinking from the setting up June 13 by a number of coal producers, a couple of big coal-handling railroads, and the United Mine Workers of America of a $50,000,000 corporation to buy and operate ships to carry coal overseas. Millions of dollars' worth of coal have been carried abroad — even to Newcastle—in the past two years, Growing consumption in Europe's post-war economic restoration has done more than increases in this country to put the coal industry of the United States back in the running.

What the chemical industry can learn today about coal is somewhat indefinite. Petroleum and natural gas have pushed coal off to the side there as much as in fuel areas. But, the possibilities of combining its role in the two areas afford extensive regions for exploration from both sides.

The big-paying use for coal is still as a fuel, and it will be for some time after the atom has been widely put to work. Although the atom may in a couple or three decades have got quite well along in the job of creating energy, and oil may have become much bigger by way of physiochemical derivatives in jet, turbine, and other new propulsion fields, coal will still have a place, perhaps not as a king, but certainly as a worker.

One of the biggest current manifestations of interest in coal is that in areas of public utilities. There is an especially large promise in that direction in the push being put behind the promotion of home-heating with electricity. There is a problem in that connection which cannot be solved quickly or cheaply. It is that of assuring an adequate distribution of electric power under weather conditions which play havoc with the present system of overhead wiring.

A method can be developed under today's technological competence to make the distribution of electricity less costly than the supplying of coal and at least as reliable. Then will come the locating of electric power plants near or even in coal mines—with a most desirable reduction of urban problems having to do with smoke and ashes. The efficient teaming of coal chemical plants and electric power plants in the coalfields would offer no particularly difficult problems.

From whatever angle one may be looking at the future of coal, there is more than a little to think about in the recent statement of the director of Atomic Energy Commission reactor development that the prospects for producing direct electric energy from coal seem more promising than those for obtaining it directly from nuclear fission.

Washington Talks It Over

PHS Is Planning a Nation-Wide Health Survey of Interest To Pharmaceutical Industry and Government Units

By Ralph L. Cherry
Chief, OPD Washington Bureau

A real appraisal of the health of the nation—pathologically, not economically—is to be made by the Public Health Service. The results will be extremely important not only to the manufacturers and distributors of pharmaceuticals, but to the states and federal government in planning public health programs.

It has been twenty years since a similar study has been made and the latest information on the number and relevant characteristics of persons in the country suffering from heart disease, cancer, diabetes, arthritis and rheumatism and other diseases, injuries, and handicapped conditions is now seriously out of date.

Periodic inventories providing reasonably current information on these matters are urgently needed for purposes such as (1) appraisal of the true state of health of our population, (2) adequate planning of any programs to improve the health, (3) research in the field of chronic diseases, and (4) measurement of the numbers of persons in the working ages so disabled as to be unable to perform gainful work.

The study to be made by PHS is to be the start of a continuing survey and special studies to obtain accurate and current statistical information on the amount, distribution, and effects of illness and disability in the United States and the services received. Although it is to be made by PHS, the gathering of the actual data is to be done largely by the Census bureau. First results of the study may come forth next year.

Amphetamine Sales Curbed

The Food and Drug Administration is highly pleased with its campaign to shut off illegal sales of amphetamine pills to truck drivers. The agency cracked down hard on these law violations in a series of raids last year and subsequent reports indicate that the campaign has met with some success.

Reports of inspectors of the FDA who have attempted to purchase the drugs in the same localities where prosecutions were started last year, indicate the drugs are not readily available now. Reports from the trucking industry also show that drivers have quit taking the pills after being warned against the dangers of their use.

FDA has received recent reports from other localities showing conditions similar to those previously found along truck routes in the South Atlantic states and Commissioner George P. Larrick says that action is to be stepped up against the illegal distributors.

Industry Paper Burden

Paper work burdens imposed on industry by the government are due for another slashing in line with the recommendations of the Hoover commission over a year ago. President Eisenhower brought up the matter with the budget director recently and told him he wanted a "vigorous effort" made to cut the paper work required in the government's official business with the public.

Over the past two years, considerable progress has been made in reducing the paper burden, but it is readily admitted that there is still room for much needed improvement.

For instance, it is felt that there can be more savings made in the forms required by the Department of Defense. The Census bureau and Bureau of Labor Statistics can probably cut back further on their forms without materially decreasing the value of the information obtained.

Mr. Eisenhower said he would like to know by September 30 how the budget director is getting along in this effort.

More Fertilizer Being Used

Farmers all over the world are learning fast the value of commercial fertilizers in increasing crop production. The latest issue of the *Yearbook of Food and Agricultural Statistics*, just released by the Food and Agricultural Organization, shows that the use of commercial fertilizers throughout the world has more than doubled since before World War II.

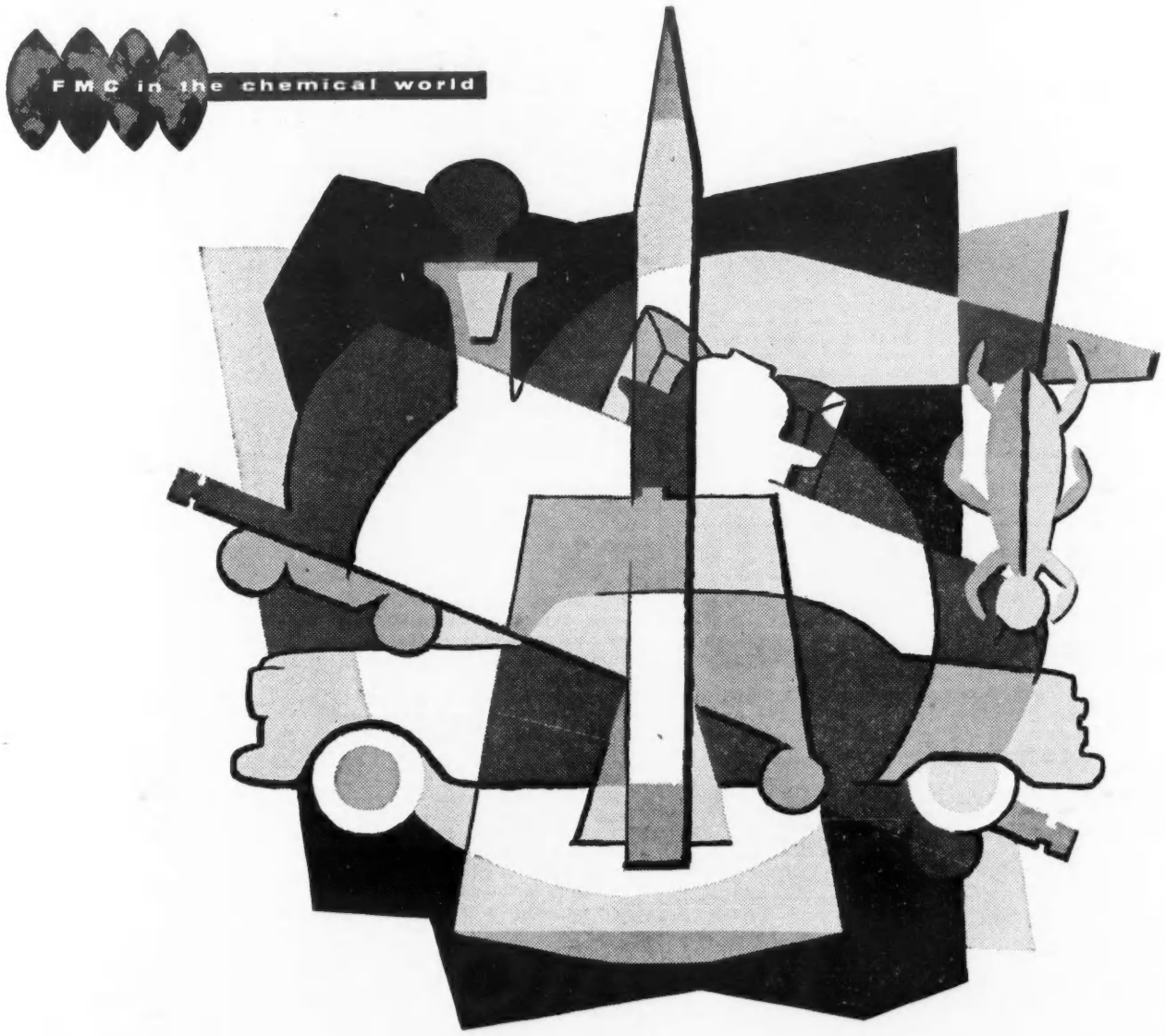
Excluding the USSR, world consumption of nitrogenous fertilizers has risen from 2.4 million metric tons in 1938 to 5.8 million tons for the 1954-55 year. In the same period, consumption of phosphoric acid has risen to 6.7 million tons from 3.5 million tons, and of commercial potash fertilizers to 5.4 million from 2.5 million tons.

Much of the biggest proportional increase was in Latin America, where consumption of potash fertilizer increased to 90,000 tons from 10,000 tons; of phosphoric acid from 30,000 tons to 180,000 tons, and of nitrogenous fertilizers from 40,000 tons to 240,000 tons. There was also a considerable increase in North America:—Potash from 380,000 tons to 1.75 millions tons, phosphoric acid from 710,000 tons to 2.18 million tons, and nitrogenous fertilizers from 360,000 tons to 1.87 million tons.

Russia Fighting Plant Pests

Russia has decided to go along with forty-six other countries, including the United States, in a cooperative effort to fight plant pests and diseases which cause losses amounting to billions of dollars each year. Although not a member of the Food and Agricultural Organization, Russia deposited the necessary instruments of adherence to the International Plant Protection Convention last April, FAO said.

The convention, approved by the FAO conference in 1951, came into force on April 3, 1952, with thirty-seven signatories. Since that time ten other countries have notified FAO that they will adhere to it. The convention requires all contracting governments to adopt effective and uniform quarantine measures to prevent the spread of destructive plant pests and diseases, and to organize international campaigns to combate outbreaks which threaten more than one country.



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Heavy Chemicals

Declines in copper cyanide and in mercury metal on spot last week were the key feature of an otherwise quiet heavy chemicals market. Barium hydrate was scheduled to be advanced effective July 1, due to higher prices brought about by increased costs of barytes. The copper metal market remained unstable, owing to the discrepancy between world and domestic producers' prices. While copper cyanide was lower because of easier spot scrap and custom smelter prices, there was no indication that other copper chemicals were due for change.

Silver bullion declined fractionally on spot during the week, with supplies somewhat more plentiful and demand easier.

Preliminary figures for specified chemical production in April, as compiled by the Bureau of Census, showed declines in output without except...

Leading the declines were nitric acid, off 9 percent from March, lime soda caustic and phosphoric acid, both off 6 percent, and sulfuric acid and calcium carbide, off 5 percent.

Trade sources last week indicated that business, while still satisfactory, was continuing to level off. A watchful eye was being kept on negotiations between labor and management in the steel industry.

Chlorine and the alkalies continued to move in good volume, but producers admitted that they could take on new business without difficulty in most items, owing to a recent buildup of inventory.

The American Paper and Pulp Association reported production for the week ended June 16 at 99.9 percent of theoretical capacity, as compared with the revised figure of 101.0 percent for the previous week and 98.7 percent for the corresponding week of last year.

Price Trends

Advanced
None

Reduced
Copper cyanide, 3c. per lb.
Mercury, $3 per flk.
Silver, ½c. per oz.
Tin, 1c. per lb.

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	June 24, 1955
101.61	101.64	101.72	98.33

For Current Prices see Page 9

Acid, Hydrochloric—Production in April eased 3 percent below March levels, according to the Bureau of Census.

In a preliminary report, the bureau indicated that output in April declined to 78,467 tons from 81,245 tons produced in March.

Acid, Nitric—Output in April declined 9 percent below March. April production declined to 203,439 tons from 229,916 tons in March, according to the Bureau of Census.

Acid, Phosphoric—A 6 percent decline was noted in April output below March levels by the Bureau of Census. April production was off to 312,054 tons, from 331,581 tons in March.

Acid, Sulfuric—Industrial demand continued active. While May shipments of rayon and acetate were 14 percent below levels of May, 1955, deliveries were still above 1954 levels.

Mild declines in activity of rayon, steel and other consuming industries accounted in part for a 5 percent decrease in the output of sulfuric acid.

The Bureau of Census reported production in April at 1,362,851 tons, compared with 1,441,266 tons produced in March.

Steel, while still operating at a strong pace, showed further declines. Actual output two weeks ago was reported by the American Iron and Steel Institute at 2,299,000 tons, or 93.4 percent of capacity.

Output was estimated for last week at 95.7 percent of capacity, or 2,355,000 tons. Actual production one month ago was 2,396,000 tons, or 97.3 percent of capacity.

Barium Chemicals—Increased costs of barytes, as well as more limited availability, have caused price boosts for barium hydrate. The new prices, reported last week in OPD, will go into effect July 1.

Barium hydrate will be newly quoted at $208 per ton, bags, carlots, truckloads, freight equalized, and $218 per ton, less carlots and less truckloads, same basis.

Calcium Carbide — Production of commercial grade calcium carbide in April declined 5 percent to 83,128 tons from 87,155 tons in March, according to preliminary figures compiled by the Bureau of Census.

Chlorine — Although organic chemicals output in April was substantially off, chlorine gas output declined the least, primarily owing to continuing strong demand for chlorinated organics, paper bleaching and other industrial demands.

The Bureau of Census shows chlorine gas output in April off to 322,428 tons from 326,480 tons in March. Demand last week, while judged somewhat slower than during previous weeks, was still characterized as active.

Copper Cyanide—With lower prices for scrap copper, cyanide was reduced 3c. per pound across the board effective Monday, June 18.

Cyanide was newly quoted at 77½c. per pound, drums, 20,000 pound lots or more; 78½c. per pound, 1,000-19,999 pound lots, same basis, and 80½c. per pound, smaller lots, same basis.

Copper Sulfate—Prices of sulfate continued to be based on producers' prices for copper metal. As a result, despite the drop in copper cyanide, copper sulfate and other copper chemicals were not affected.

Lime—Output of lime in 1954 declined considerably from the record established in 1953, as distribution to all major groups decreased.

According to the reports of producers to the Bureau of Mines, lime sold or used by producers totaled 8,629,000 tons in 1954 compared with 9,674,000 tons in 1953.

The reported tonnage in 1954 was considerably above the output reported in 1951 and 1952 but, because of incomplete coverage of captive production in years prior to 1953, the figures are not strictly comparable.

Open-market sales in 1954 totaled 7,180,000 short tons, a decrease of approximately 12 percent from that of 1953. Tonnages in each major use declined, but the largest loss was in refractory lime, with smaller decreases occurring in agricultural and building lime and lime used for chemical and other industrial purposes.

Soda Ash—Producers noted that several consuming interests had shown less demand during the week, in keeping with the general trend of seasonal adjustments.

The Bureau of Census reports only a 1 percent decline in output of sodium carbonate of all grades in April. Output in April declined to 431,962 tons from 436,137 tons in March.

Soda, Caustic — Rayon demand, while holding at better levels than during the comparable period of 1954, was considerably off.

Producers of rayon and acetate staple and yarn shipped 87,600,000 pounds in May, an increase of 2 percent over April, but 14 percent below the 102,100,000 pounds shipped in May, 1955, according to the Textile Economics Bureau.

April production of electrolytic caustic soda declined 2 percent to 324,153 tons from 329,278 tons in March, according to the Bureau of Census. Lime-soda caustic output dropped off 6 percent during the same time, to 37,828 tons from 40,205 tons in March.

Sodium Silicate—Buying interest maintained a strong pace from several quarters for many of the different types of silicates. Sodium silicate enjoyed good demand from the boxboard industry for use as an adhesive.

Petroleum refiners also kept up a well sustained demand. Sales to manufacturers of synthetic detergents were brisk, and opinion was divided as to whether business in this quarter would slacken appreciably during the summer months.

Nonferrous Metals

Aluminum—The month of May proved to be another all-time record month for production of primary aluminum, according to figures compiled by the Aluminum Association.

Output in May was 301,600,064 pounds, as against 289,452,612 pounds in April, and 262,256,314 pounds in May, 1955. Total production for the year through May was 1,264,468,007 pounds.

During the first quarter of 1956 domestic bauxite production increased 13 per-

Heavy Chemicals

cent from the preceding quarter, according to the Bureau of Mines.

However, incomparison with the first quarter of 1955, production decreased nearly 1 percent. Arkansas mines accounted for 97 percent of total production.

United States production of bauxite in the first quarter totaled 474,156 tons, as against 419,940 tons produced in the fourth quarter last year.

Imports for consumption in the first quarter amounted to 1,440,769 tons, compared with 1,407,888 tons shipped in the final quarter of 1955.

Copper—The world market still held at prices below those pegged by US producers at 46c. per pound, delivered US destinations. Copper cyanide was reduced 3c. per pound across the board as a direct result of cheaper copper scrap and custom smelters prices.

Magnesium Production of primary magnesium during the first quarterly period of 1956 was 18,592 tons, an increase of 21 percent above average quarterly production for 1955, according to the Bureau of Mines.

Mercury—Mercury slid off further last week, and was quoted at $258 to $260 per 76-pound flask, spot, on Friday. Trading was hand to mouth.

Selenium — Production of metallic selenium and selenium compounds in March was 101,319 pounds of contained selenium, according to reports received from selenium producers by the Bureau of Mines.

The output was 23.2 percent greater than the February production of 82,222 pounds, and 42.8 and 44.8 percent above the average monthly production in 1955. and 1954, respectively.

Shipments in March were 92,122 pounds, compared with 89,490 pounds of contained selenium shipped in February. Imports of selenium received from Canada in March totaled 22,390 pounds compared with February imports of 23,666 pounds.

Silver—Bullion was lower, quoted at 90¼c. per troy ounce, spot, Friday.

Tin—The market fluctuated narrowly, quoted at 94c. per pound, spot, Friday.

In April Malaya mined 5,290 long tons of tin-in-concentrates (March, 5,261; April, 1955, 4,874). The 787 mining units in operation April 30 included 78 dredges, 636 gravel-pump mines and 73 others; 39,671 mine workers were employed, according to the Malayan Tin Bureau.

The Federation Mines Department reported that about one-fourth of the 440 Chinese-owned tin mines in the state of Perak were operating on the pok chau contract system, in which the contractor controls the working of the mine, the owner providing the equipment and taking a proportion of the output as his share.

Exports of Straits tin from Mayala in April were 5,687 long tons (March, 6,503 (revised); April, 1955, 5,177), including 2,550 to the United States.

Canadian Oils

—*Continued from page 5*

ada. The No. 1 platformer will continue to produce high octane blending component used in the company's gasolines. The Udex plant will have a design capacity of 3,650 B/SD.

Total benzene output has already been contracted for by neighboring chemical plants. The other products, toluene and xylene, will be used in motor fuels. Company engineers said that, along with existing facilities, the refinery will be in a position to keep well ahead of the high octane requirements anticipated for several years.

The platforming and Udex units, designed and engineered by Universal Oil Products Company and Canadian Oil's engineering staff, are licensed by UOP.

Pure Food and Drug

—*Continued from page 3*

brought onto the national scene a crusader at a time when great changes were being wrought by a full-blown revolution in the food industry.

And Dr. Wiley, moved by natural talents and the authority of his official position, quickly assumed leadership of a militant group who wanted the federal government to enforce a set of pure food standards.

Noting the great variance in state laws, Dr. Wiley argued that it was basically unfair to require food manufacturers to meet different standards each time their products crossed the state line.

For more than two decades, Dr. Wiley and his followers kept up an incessant drumfire for a national pure food law. What was at first a small band of fire-eaters gradually grew in size as the battle lines broadened.

Consumer groups got into the fray. Women's clubs took up the cry and, finally, manufacturers came over to Dr. Wiley's side.

Dr. Wiley's 'Poison Squad'

With his flair for the dramatic, Dr. Wiley in 1903 captured nationwide attention by setting up what he called a "poison squad." Made up of volunteers from his bureau, Dr. Wiley's squad ate foods containing preservatives to determine whether or not the ingredients were injurious to health.

And, at last, the battle was won. On June 30, 1906, the nation's first pure food and drug act was signed into law by President Theodore Roosevelt.

At the same time, President Roosevelt also signed a meat inspection act to give Dr. Wiley a double achievement for his years of dedicated labors in the public interest.

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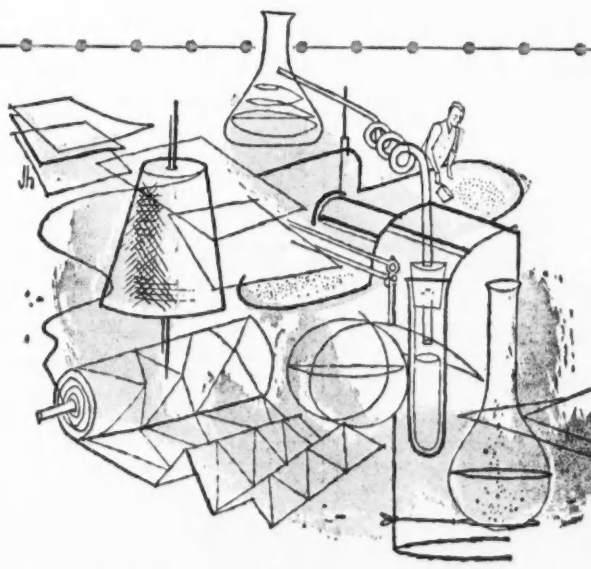

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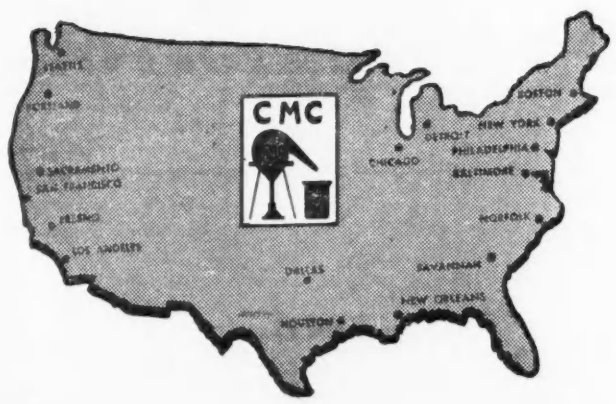

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Government Sells Holdings in Rohm & Haas

—Continued from page 3

poration stock to a financial syndicate headed by the Kidder and Drexel firms and Merrill, Lynch, Pierce, Fenner & Beane of New York. The price was $29,131,960.

Upon being advised of its winning bid for the Schering stock, the syndicate decided on a four-for-one-split. With Schering recapitalized, the new stock was then offered to the public at $17.50 a share.

Except for General Aniline & Film Corporation stock, last week's Rohm & Haas sale just about cleans out the government's portfolio of large blocks of vested enemy stock in chemical or drug companies.

OAP officials could give no estimate as to when the government will be able to offer General Aniline for sale. At the present time, they are waiting for the passing of the deadline date for Interhandel to submit certain documents relating to ownership.

New General Aniline Developments

Two new developments occurred in the case last week, however, which may add further to the delay in getting a final decision that would clear the way for disposing of the company:

● Interhandel filed motions with the US District Court for the District of Columbia and the Circuit Court of Appeals to extend the deadline for submitting the documents called for by the government. Counsel for the Swiss firm said that 90,000 papers have been submitted since the deadline was set six months ago and more are on the way. Nothing was said, however, about certain books and records which the government wants to see.

● William J. Hughes, jr., special master appointed by the district court last year, ruled that the government did not have the right to ask stockholders of Interhandel for data on prior ownership of their stock. The decision is being closely studied by OAP with the possibility of moving for a clarification.

Unless these documents are submitted by the end of July, the order of the district court dismissing Interhandel's ownership claim will go into effect. Officials, however, do not believe that will end the case.

Certain minority shareholders of General Aniline were granted the right to intervene in the Interhandel suit, and dismissal of the Interhandel suit would not necessarily affect their rights to bring court actions against the government to prevent it from disposing of the company.

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Colgate Joins Rutgers

—Continued from page 4

new laboratory, said, "Increasingly, industry has recognized an innate concern with research on the part of our institutions of higher learning. Their tendency toward partnership with universities in research is of great value to both."

The new division will be primarily concerned with the biological sciences such as pathology, histology, pharmacology, histochemistry and bacteriology. Its scientists will explore such basic problems in dental medicine as the origin of periodontal disease, the causes of dental decay and the role of nutrition in dental health.

According to Dr. Thomas H. Vaughn, vice-president responsible for Colgate-Palmolive's research and development program, the company has long felt the logic of an active partnership of this type to extend the limits of scientific comprehension.

Dr. Vaughn pointed out that in these academic surroundings, the division's scientific work could flourish without interruption from immediate competitive pressures.

The dedication was preceeded by a colloquium at the Institute of Microbiology. Papers covering various aspects of dental health were presented by members of the division's staff.

Customs Ruling

—Continued from page 4

by the collector of customs and later affirmed by the customs court had been protested by Sandoz Chemicals Work, Inc.

The importer argued that the material was properly dutiable as a bromide compound at 10 cents a pound under paragraph 45.

One of the arguments advanced by the importer against classifying the substance under paragraph 28(a) was that "medicinals" as used in that paragraph meant only substances used chiefly for alleviating body disorders. The importer drew a distinction between diagnosis of disease and cure of disease, and argued that homatropin hydrobromide fell within the class of the former.

The appeals court ruled, however, that the legislative history showed that congress did not intend to make such a distinction but intended that the word "medicinal" was "any substance which is capable of being used in the medical profession for either diagnosis or treatment of disease . . ."

Clarence Morgan, Inc., Relocates

Clarence Morgan, Inc., has moved from 325 North Wells Street, Chicago, to more spacious offices at 320 West Ohio street in that city. At the new location, the company's office and warehousing facilities have been consolidated. The Chicago concern represents a number of major chemical producers.

Rambach Chemical Moves

Rambach Chemical Company has moved its offices to new and larger quarters at 93-03 Sutphin boulevard, Jamaica, N. Y. The new telephone number is Axtel 7-8900. Rambach specializes in surplus chemicals.

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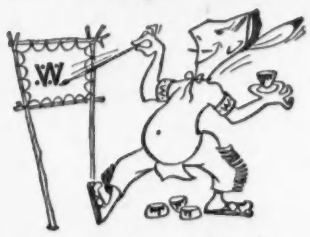

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Agricultural Chemicals

Several leading producers have followed the lead of a competitor who had announced earlier this month an 8c. per unit-ton reduction effective after July 1 in prices of nitrogen solutions. Others were still discussing new contracts, but debate was centered more on special clauses than on price. The 8c. reduction was almost certain to be put into effect universally by July 1. With a few producers yet to be heard from, most had committed themselves to reduce ammonium nitrate $10 per ton in July, seasonal discount included, and reduce the discount $1 per month thereafter until the price is $4 per ton below the current quotation. These maneuvers failed to unsettle earlier determinations on new prices effective July 1 for ammonium sulfate, down $10 per ton, and anhydrous ammonia, commercial and refrigeration grades, and aqueous ammonia, all down $5 per ton.

Animal proteins were quiet last week. Fishmeal and scrap declined $3 per ton in the Gulf area, where heavy inventories posed a problem, but held to previous quotations in the north. Hot, dry weather in some local areas gave a lift to the feed trade, and dried blood was quoted 25c. per unit-ton higher at Chicago, unchanged in New York.

Price Trends

Advanced
Blood, dried, Chicago, 25c. per unit-ton.

Reduced
Fishmeal, $3 per ton.
Fishscrap, $3 per ton.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	June 24, 1955
108.09	108.48	109.99	110.78

For Current Prices see Page 9

Animal and Plant Foods

Ammonia Liquor—Ammonia content of liquor produced at cokeovens in April was down to 2,978,185 pounds, off 6.1 percent from March cokeoven production of 3,171,752 pounds, the Bureau of Mines reported. Figures were compared to cokeoven output of 3,117,544 pounds in April, 1955.

Total for the first four months of 1956 was 12,311,799 pounds, compared to 11,306,074 pounds produced at cokeovens in the like period in 1955.

Ammonium Nitrate—Trade was almost at a standstill last week. Apparently, mixers were sitting tight for the balance of the closing fertilizer season, wary lest they be left holding substantial stocks through the inactive months.

The reduced price listings were now scheduled by virtually all producers. They will be effective in contracts negotiated prior to commencement of the new fertilizer year beginning July 1.

For the present, supply was abundant and demand was poor.

Ammonia Sulfate—The advance report on the Census Bureau's 1954 census of manufactures valued sales and interplant transfers of cokeoven ammonium sulfate and liquor, including ammonium sulfate from purchased ammonia, at $36,310,000.

The corresponding figure of $29,729,000 determined in the 1947 census of manufactures, the most recent previous similar census, is not comparable. Cokeoven output of public utilities, included in 1947 figures, was excluded from production figures for 1954.

Animal Proteins—Some soft spots appeared in trade in fishmeal and scrap in what was described as a trading market based on few sales and no firmly established price pattern. Prices declined $3 per ton in some areas, particularly in the Gulf area, where there was a moderate inventory problem. They were unchanged in the north, where supply was limited.

Quotations, $133 per ton for meal and $129 per ton for scrap a week ago, were now quoted in a range, $130 to $133 for meal and $126 to $129 for scrap.

Supply was good in general, demand fair, the market unsettled.

Hot, dry weather in spots in the middle west toned up the feed business last week, and dried blood rose 25c. to a new quotation of $5.25 per unit-ton. Blood was unchanged at $4.50 per unit-ton in New York.

Animal proteins in general moved slowly last week. There was a feeling that prices were weak. Producers said buyers seemed to be holding off as long as possible.

Castor Pomace—Trade was sluggish. A few sales were reported at $35 per ton. Some producers continued to quote the price at $40, but this figure appeared to be merely nominal.

There was a dearth of material and barely enough interest to make a market for it.

Lime—Some 19,605 short tons of lime was sold for agricultural uses in March, the Bureau of Mines reported, including 4,009 tons of quicklime and 15,596 tons of hydrated lime. In the month previous, sales included 2,494 tons of quicklime and 12,100 tons of hydrated lime, for a total of 14,594 tons. Figures for March, 1955, were 3,837 tons of quicklime and 17,337 tons of hydrated lime, a total of 21,174 tons of lime.

Sales amounted to 45,175 short tons in first quarter 1956, including 10,784 tons of quicklime and 34,391 tons of hydrated lime. Corresponding figures for first quarter 1955 were 9,918 tons of quicklime and 33,187 tons of hydrated lime, a total of 43,105 tons.

Los Angeles Market

Ammonium phosphate, 11/48 grade, was quoted at $95.85 per ton in bulk, domestic, delivered in the Los Angeles area.

Ammoniated superphosphate, 5/15 grade, was $35.50 per ton in bulk, f.o.b. Los Angeles, $39.50 in bags.

Blood meal, at $3.75 to $4 per unit-ton, and tankage, at $3 to $3.25, were in good supply. Sales were very light.

Domestic fishmeal was firm at $2.30 per unit of protein. Canadian herring meal was $2 per unit, f.o.b. Vancouver, US funds, offered for resale at $1.95, same basis.

Farm Chemicals Foreign Trade: April

Following are data compiled by the Census Bureau indicating volume of exports and imports of agricultural chemicals. Classified as ammonium nitrate mixtures are those containing 20 percent or more nitrogen. Figures for ammonium phosphates and fishmeal and scrap account only for that material intended for use as fertilizer. Superphosphate is classified as normal when a.p.a. is less than 25 percent, concentrated when a.p.a. is 25 percent or more. The term tons refers to short tons.

		April 1956	*First Four Months 1956*
EXPORTS			
Ammonium nitrate	lbs.	24,198,490	80,769,293
Ammonium sulfate	lbs.	114,556,088	557,382,359
Insecticides, fungicides and agricultural sulfur	lbs.	14,709,421	33,474,993
Phosphate rock	tons	242,083	931,327
Potassium chloride	tons	43,087	111,493
Superphosphate, normal	tons	18,680	98,661
Concentrated	tons	13,504	47,625
Weed killers	lbs.	1,735,683	6,158,185
IMPORTS			
Ammonium nitrate, including mixtures	tons	35,499	235,271
Ammonium phosphates	tons	21,440	87,304
Ammonium sulfate	tons	30,297	91,467
Blood, dried	tons	70	485
Calcium cyanide or lime nitrogen	tons	4,289	26,950
Fishmeal and scrap	tons	78	1,242
Nitrate, calcium	tons	13,834	49,915
Sodium, crude and refined	tons	80,688	220,331
Phosphates, crude, including apatite and phosphate rock	tons	5,938	35,108
Potassium chloride, crude	tons	17,552	111,959
Nitrate, crude	tons	140	440
Sulfate, crude	tons	2,299	27,566
Urea	tons	6,380	105,627

Textile, Leather Chemicals

Price patterns were firm in textile and leather chemicals last week. Trading was generally described as fair in volume, but was largely confined to small volume requirements for immediate needs. Supplies were quite ample to meet all needs, and buyers were interested in hand to mouth purchases for prompt shipment.

Producers of rayon and acetate yarn shipped 87,600,000 pounds in May, an increase of 2 percent over the 85,800,000 pounds shipped in April. However, this was 14 percent below the 102,100,000 pounds shipped in May of last year, according to the Textile Economics Bureau. Last year's total rayon and acetate output by the United States was 1,261,000,000 pounds, or 25 percent of the world's total. Japan maintained the second position, turned out 732,000,000 pounds or 14 percent of the world total.

Shoe production in May amounted to approximately 46,900,000 pairs, only a fraction of a percent less than May of last year. However, preliminary surveys indicated that there would be a sharp curtailment of production in June with an estimated 41,500,000 pairs, as against the 49,590,000 pairs turned out in June of last year.

Consumers of bichromates were keeping demand up to a good level as of last week, whereas many chemicals have eased off a bit the past couple weeks. Some slow-up was expected the second quarter and still more in the third quarter. In addition to plant shutdowns for vacations, the lull currently in the paint business was felt likely to be eventually reflected in lessened bichromate demand for pigment manufacturer.

Sizing material prices were firm and trading was generally quiet. Most tanning agents were in slow demand, business being largely confined to small lots for prompt shipment to meet immediate needs.

Price Trends

Advanced
Egg albumin, tech., 3c. per lb.

Reduced
None

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	June 24, 1955
107.45	107.44	107.41	104.63

For Current Prices see Page 9

Chemicals

Bichromates—Sodium and potassium bichromate demand was reported as steady and holding up quite well to date. While some lines had tended to show a slow-up currently, which was expected to continue through the second and third quarters, bichromates seemed to be lagging behind this trend a bit. Prices were firm and no change was expected in the immediate future. Pigment manufacture being perhaps the biggest consuming industry for sodium bichromate, the prevailing lull in the paint industry was expected to ultimately show moderate reflection in the bichromate business. Just how much this would be offset, if at all, by demand from the tanning and metal treating industries was a matter for conjecture.

Potassium bichromate business volume being only fractionally that of sodium bichromate, where deliquescence was an advantage, and in organic syntheses, no significant change in trading volume was expected.

Hydrogen Peroxide—Textile bleaching operations were apparently continuing at a quite good rate. While some sections of the textile field were reported slow, as reflected in the current lull in demand for dyestuffs, sales of hydrogen peroxide has held up quite well. Compared to last year, some producers reported this year's business so far as being equal to or better than last year—even up to the past week. However, demand from the paper trade was well sustained. Demand for the higher peroxides used in rocket fuels was quite another matter, and not something that would be subject to fluctuations in business conditions, at this stage of the game.

Sodium Acetate—There was little new to report in this market. Price patterns established quite some time ago were still in effect, and expected to continue, at least for the balance of this quarter and on into the next. Despite the general feeling that the textile business was currently slow, trading in this item was said to be well maintained.

Sodium Hydrosulfite — Demand was steady at a well sustained level. Price schedules will become 1c. per pound higher effective July 1, a situation which naturally results in heavy orders for late June, and a slow-up immediately after July 1.

Sulfonated Oils—There were no price changes reported on any grade. Demand was steady and moderate from consuming industrys, but confined mostly to immediate needs. Supplies were quite ample and abundant.

Sizing Materials

Blood Albumin — Prices varied as to quantity, ranging from 65c. to 80c. per pound. Consuming demand for prompt delivery held to a fair level. Buyers were interested in purchases only for immediate needs.

Corn Dextrin—A firm and stable price pattern prevailed on all grades. Demand was well sustained but only at a moderate level, with buyers confining their purchases to immediate needs. Shipments were prompt from quite adequate stocks.

Corn Starch—Price patterns established some time ago appeared to be firm and well held. Demand was active and well sustained, but buying interest did not extend beyond requirements for immediate needs, because supplies were abundant and shipments prompt. It was expected in most quarters that this situation would prevail for the immediate future.

Egg Albumin — Edible prices ranged from $2 to $2.02, depending upon quantity, unchanged from the previous week. The non-edible technical material used in industrial adhesives was scarce and priced at $1.10 per pound.

Tanning Materials

Chestnut Extract—Business volume was described as hardly more than fair to medium. Buyers were buying hand-to-mouth. Supplies were such that prompt shipment could readily be made. Price patterns which have recently prevailed were holding firm, and there was nothing currently apparent in the trade indicating any immediate change likely to develop.

Cutch—The price of carlots, ex dock, remained firm at 8½c. per pound, plus duty, so far as carlot offers were concerned. Demand was steady at relatively small volume, in a quiet market.

Mangrove Bark—Prices in effect as of last week were $55 per ton for Equadorian, $58 for Columbian, and $68 for African, ex dock. The market was very quiet and limited to small volume trading for nearby shipment. Buyer's interest was hardly more than hand to mouth. Since conditions prevailing in primary markets were virtually unchanged, it was expected that the New York market would hold steady.

Myrobalans—Offers for shipment were light and closely held. Demand was mostly for nearby shipment on small quantity spot lots. Buyers showed little interest for other than immediate needs. No. 1 assorted was quoted at $64 to $65 per ton, ex dock. Crushed ranged from $79 to $80, and Bombay material was quoted at around the $63 to $64 level, on the same basis.

Quebracho — Demand was light from consuming industries, but despite modest local trading, the market was firm pricewise, reflecting conditions prevailing in primary markets. A firm attitude in Argentina regarding replacements had a steady and stabilizing influence on domestic sales prices in the New York area. Ordinary solid, 63 percent tannin was maintained at 11 21/33c. per pound ex dock plus duty, while clarified was priced at 12 23/64c., on the same basis.

Wattle—Buyers confined themselves almost entirely to inquiry for immediate needs only, expecting and getting prompt delivery. Trading was limited and quiet. Price structures in effect over recent weeks were firmly maintained.

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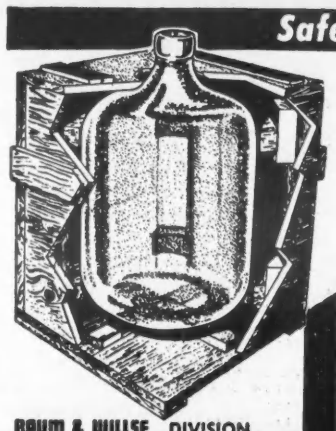

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7. The Interests Concerned in Industrial-waste Problems
8. Districts for Industrial-waste Treatment
9. Sampling and Analysis of Wastes
10. Combining Wastes from Several Plants to Reduce Costs
11. The Pollutional Effect of Various Wastes
12. Methods of Waste Treatment
13. Equipment for Waste Treatment and its Selection
14. Coagulants and Chemicals
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Aliphatic Organics

The most recent addition to the rather large group of chemicals slated for price increase on July 1 was propylene dichloride which was announced last week. Virtually the whole group of chlorinated solvents are included in the scheduled price hike, it was noted, and includes carbon tetrachloride, perchloroethylene methyl chloride, 1,1,1-trichloroethane, methylene chloride and trichloroethylene.

Isopropyl alcohol was unchanged last week despite predictions by some trade observers that prices would follow the upward trend set by ethyl alcohol. More often than not, whenever price quotations are changed for ethyl alcohol, the same holds true for isopropanol, it was said. Buying of a number of chemicals which are due for the July 1 price boost on contract sales was reported to have been stepped up as consumers move to build inventories before the deadline.

Methanol was unaffected, pricewise, and is expected to continue unchanged through the third quarter. This prediction was based on the knowledge that the price is certainly not going any lower yet it cannot possibly be advanced since the deadline for notification of customers for the third quarter has passed. Glycerine prices were also very firm in the face of a sustained demand and continued price stability of pentaerythritol, a major competitor with glycerine in the protective coatings field. Output of glycerine continues at a high rate as the industry prepares for the annual vacation shutdown next month. Stocks on hand were said to be sufficiently large to accommodate consumers during the shut-down period, it was noted.

During 1954, value added by manufacture in the soap and glycerin industry amounted to $493,000,000, an increase of 11 percent from 1947, according to preliminary results obtained from the 1954 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry dropped 8 percent since 1947 (when the last Census of Manufactures was taken) to a total of 25,300 employees in 1954. The industry shipped products valued at $938,000,000 in 1954, a decrease of 13 percent from 1947. The industry's cost of materials, fuel, electricity, and contract work decreased 31 percent between the two years from $639,000,000 in 1947 to $440,000,000 in 1954.

Alcohol—Completely denatured alcohol will be advanced 5c. per gallon on July 1 in line with the general across-the-board hike in pure and specially denatured ethanol quotations instead of the 6½c. increase erroneously listed in the preceding issue of OPDR. The scheduled increase in ethyl alcohol has put added pressure on sales as consumers move to beat the increase and build their inventories as high as practicable. Spot prices were increased effectively June 15, it was noted, in line with the industry practice of giving contract customers 15 days notice before any increase in price.

Aside from the impending price changes in alcohol, the matter of who would get the government-owned alcohol-butadiene plant at St. Louis remained as the most interesting topic among trade observers this past week. An original commitment by the Rubber Producing Facilities Disposal Commission to sell the plant to the nation's largest producer of synthetic ethanol was upset by the intervention of the Justice Department on the grounds that the sales specifications had called for the buyer to continue the manufacture of butadiene from alcohol, thus keeping the plant in active operation in the event of a national emergency and this condition was not agreed to in the sale contract.

Congressional committees hald hearings on these objections last week and there were proposals that the original law in regard to the sale of government-owned alcohol-butadiene plants be amended to permit prospective purchasers to manufacture chemicals other than butadiene. The production of butadiene from alcohol normally costs substantially more than that made from petroleum sources. Only the current shortage of butadiene has made limited output at this facility profitable in the past year, it was noted. Petroleum based butadiene facilities are due to be increased by at least one-third. The need for alcohol-based butadiene is, hence, transitory, it was felt.

Amyl Acetate—Supplies of amyl acetate continue to meet consumers' requirements.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	June 24, 1955
130.93	130.93	130.93	130.50

For Current Prices see Page 9

Up until this year amyl acetate had been in tight supply as a result of the decline in the production of fermentation alcohol over the past few years. The increase in the output of fermentation alcohol resulting from the taking over of the production of butadiene from alcohol at the government plant in St. Louis has been reflected in the easing and ultimate plenitude of supplies of amyl acetate, it was noted. Overall rate of inquiry for this ester solvent was said to be good while prices were quite firm.

Carbon Tetrachloride—Demand for this chlorinated solvent continues at a steady rate with some consumers reported to have increased their buying in order to build up inventories in face of the scheduled increase in carbon tetrachloride prices on July 1. Not all users have sufficient storage capacity, however, to buy far ahead of their immediate needs, it was noted.

Prices are slated to be advanced ¾c. in carlot and less than carlot drum quantities on that date. Zone 2 pricing will also be eliminated on July 1 and this move was expected to stimulate sales in the western part of the country.

Ethyl Amyl Ketone—The market was reported to be running at a satisfactory level. Supplies were adequate to accommodate industrial requirements while prices were firm.

Formaldehyde—Demand for formaldehyde was reported to be running at a brisk level. The impending price increase which has been slated for July 1 was said to have spurred buying as consumers moved to build up their inventories. Tank-car prices are slated to be hiked 2/10c. per pound while carlot and less than carlot drums will be advanced ¼c. per pound.

Increasing quantities of formaldehyde have been going into the manufacture of plastics as well as into plywood and hardboard production. Supplies appeared to be adequate to cover consumer requirements at the present time and plant capacities were said to be sufficient to meet any normal increase in consumption, should it occur.

Glycerine—The spot market continued to maintain stability last week and pricewise, glycerine was not affected by the flurry of price changes scheduled for the third quarter in a fairly large number of organic chemicals. Indeed, refined glycerine has been exhibiting a marked degree of price stability which is, of course, primarily the result of the preponderance of the synthetically produced material over natural glycerine with regard to the percentage of the overall total produced. Synthetic glycerine production is currently in the neighborhood of 115,000,000 pounds annually. Consumption has been stepped up as more consumers have turned to its use in view of the steady supply and steadiness in price. It has been rumored for some time that the glycerine expansion goal will be met by the entrance of a new synthetic producer into this field. To date, however, there has been no official announcement as to what chemical manufacturer it will be.

The substantial production of synthetic glycerine has also had a salutary effect upon prices of the natural material. Argentine prices for crude have declined considerably in recent months and have enabled producers of refined glycerine to hold the price line despite rising costs of labor, transportation and general operations.

The outlook for the continued growth of glycerine consumption is considered excellent, according to trade sources. Construction activity all over the country is reflected in the heavy demand for the dynamite grade while the manufacture of

protective coatings and plastics has also been taking a substantial amount of production. Pharmaceutical manufacturers were also consuming glycerine at a brisk seasonal rate and on the whole, consumption patterns were good.

Consumers were currently stocking up in preparation for the vacation shutdown which takes places annually in July in the soap plants. Synthetic production, however, will not be interrupted.

Isopropyl Alcohol—Demand for isopropyl alcohol was reported to be running at a good rate. Supplies were ample to meet consumers' requirements and prices were steady. Contrary to a usual trade practice, the scheduled hike in ethyl alcohol due for July 1 was not paralleled by any change in the price of this item.

Methanol—Demand for methanol was reported to running at a steady rate although it has been spotty in some directions, according to some trade sources. Supplies are currently more than adequate to accommodate requirements while prices are reported to be holding unchanged.

Methyl Ethyl Ketone—Demand for lacquer solvent was reportedly sustained at a brisk pace. Supplies were currently adequate and the expansion of production facilities was expected to assume a greater output in order to meet anticipated expansion in the consumption of this material.

The slowdown in auto industry production has not materially affected consumption, according to trade sources in view of the healthy state of demand from manufacturers of finishes for the appliance industry. Pricewise, MEK was firm and expected to hold through firm in the immediate future.

Propylene Dichloride—This chemical was recently included in the group of chlorinated solvents which are due for an increase in price on July 1. Overall consumption of propylene dichloride has been running at a satisfactory level, according to trade sources and it was anticipated that its use would continue to expand.

Sorbitol—The spot market was reported unchanged since last reported. Prices were steady while inquiry remained routine for this time of year. Supplies were adequate to cope with consumer requirements and expected to continue.

Trichloroethylene—Demand for this chlorinated olefin was reported to be ample for current needs. The slowdown in the auto industry which had affected the consumption of this solvent in many operations of subcontractors making auto components has been offset to a notable degree by the pickup in buying resulting from consumers anticipation of the price increase slated for July 1. Inventories were said to be building up in consumers' hands and the third quarter could see some diminuition in quiry after the increase becomes effective.

Lithium Corp. Appoints

Richard E. Thompson has been named general purchasing agent, Minneapolis, and Harlin E. Stoterau has been appointed purchasing agent of the St. Louis Park, Minn., plant of Lithium Corporation of America. Fred A. Dixon has been confirmed as purchasing agent and traffic representative for the Bessemer City, N. C., plant.

Navy Paint Plants

—Continued from page 3

to restore the section, "the committee directs the Department of Defense to maintain all such facilities and activities within the department unless such disposal or transfer is economically justified, and unless no increased costs result." The department is to report periodically to the committee on its disposal or transfer action.

Industry representatives believe that the department will have no difficulties in finding that disposal of the paint plants "is economically justified and will result in no increased costs." They expect the government to take steps towards closing down the two plants immediately after the defense appropriation bill becomes law on July 1.

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N. Y. Paint Club Golf Prizes to Fales

Richard W. Fales, president of the W. H. Fales Company, Brooklyn, N. Y., won both the Harry Hillman and President's golf trophies at the 1956 sports outing held last week by the New York Paint, Varnish and Lacquer Association at Westchester Country Club, Rye, N. Y. Mr. Fales, who shot a seventy-five, was also low gross winner.

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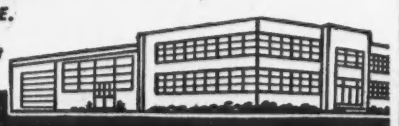

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Jobs & People

Abbott Laboratories, North Chicago, Ill.—**Dr. Marvin Spielman** has been named Abbott's director of research evaluation. **Dr. Kenneth Hamlin** has been appointed head of the organic research department to succeed Dr. Spielman. **Dr. Richard U. Schock** is the new assistant head of the organic research department. **Dr. Harold Zaugg** has been promoted to the newly-established position of research scientist.

Borden Company, New York — **Morris A. Kimmel** has become executive assistant to the general manager for the Resinous-Reslac department of Borden's chemical division, with headquarters in Peabody, Mass. **James R. Bodine** has been named director of sales and marketing for the company's prescription products division.

E. F. Drew & Co., New York — **Bert W. Ahrens** has become technical sales representative of Drew's technical products division.

Escambia Bay Chemical Corporation, New York—**A. E. New** has been named director of the technical department in Escambia Bay's manufacturing division, with headquarters at the firm's plant near Pensacola, Fla.

Glidden Company, Cleveland, Ohio — **George J. Seith** has been made director of Glidden's Mississippi region with headquarters in St. Louis, Mo.

Grove Laboratories, Inc., St. Louis, Mo.—**Gene K. Foss** has been named marketing vice-president of Grove Laboratories, a new post.

Jamaica Cocoa Products, Ltd., Kingston, Jamaica — **Richard A. Brown,** president of the Dickerson Company, a division of U. S. Cocoa Corporation, Camden, N. J., has become Jamaica Cocoa's chairman. **C. E. Gettinger,** vice-president of Woodward & Dickerson, Inc., Philadelphia, has been made a director of the Kingston concern.

Merck & Co., Rahway, N. J.— **Dr. Max Tishler,** vice-president and executive director of Merck-Sharp & Dohme Research Laboratories Division of Merck & Co., has received an honorary Doctor of Science degree from Tufts University.

Pittsburgh Coke & Chemical Company, Pittsburgh, Pa. — **James F. Hall, jr.,** has been appointed company representative for industrial chemical sales in the Chicago area.

Shell Chemical Corporation, New York—**G. A. Grimma** has been made manager of employee development in Shell Chemical's manufacturing department.

Sherwin-Williams Company, Cleveland, Ohio—**Robert T. Gabbert** has been named technical manager of the Sherwin-Williams government bid sales department, with headquarters at the firm's Chicago laboratories.

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Petroleum Derivatives

Seasonal sales continued to hold the solvents, diluents and the waxes at high levels last week, dealers and producers have reported. Solvents and diluents, particularly in the paint, agricultural chemical and insecticide fields, have shown nearly throughout, a higher level than was reached last summer at this time. Waxes on the seasonal wax paper and cardboard container market showed further and strong advances over all previous positions. Production in nearly all of these areas also moved forward. Benzol continued to show great strength though the factors working in its market are multiple and varied. For example, sales continued strong as the result of stockpiling being instituted primarily because of the steel industry situation. Yet, cheap imported material (selling at about 4c. per pound less than domestic material) continued to be present on the market and leaving virtually no mark at all. In the face of these two factors, automotive industrial sales remained soft bringing down with it, styrene sales which, in turn, brought down regular market sales (this also would include the benzol seasonal picture). However, as noted earlier, the stockpiling trend kept the market stiff and moving.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1948 average)

Last week	Prev. week	Last month	June 24, 1955
105.47	105.47	104.53	104.42

For Current Prices see Page 9

Solvents and Diluents

Benzol—Buying continued on a high level last week, dealers reported, with further movement in the steel industry management-labor situation pointing toward a growing breach, and dealers and buyers showing continued anxiety over supply in the instance of a final breakdown in production.

Cheaper material continued to pour into the country, it was noted, though the harassement factor, so prevalent before, has fallen into such insignificance as to leave it no meaning at all. The market price for the material is still about 4c. per pound beneath the going price for regular and domestic materials, it was noted.

Styrene production continued to take much of the benzol supply, it was noted, though there has appeared some slackness in theh manufacturing process, producers said, primarily as the result of slowdowns in the automotive industry.

Partial Aromatics—High level paint sales in the construction industry and allied fields last week held this market in a high stiff position, dealers and producers reported. The domestic situation is amidst its seasonal period and in spite of automotive industry cutbacks that have forged inroads into the market, its strength is good. The foreign market also, is reportedly on a firm footing, it was noted. The tendency to use this cheaper material instead of fuller and more expensive aromatics, dealers noted, continued.

Toluol — This matter again last week showed no great strength though production continued on a fair level. Producers reported that the situation in coal tar toluol continued acute with large backlogs of the stuff remaining on the hands of producers, production continued at a good level, and sales failing to move at any higher a speed than had been true previously. Petroleum, with its production more capable of atuning itself to the industry demands, does not find itself in this over-stocking position. However, the situation still is not particularly good.

Xylol — High seasonal demand from agricultural chemical, insecticide and paint manufacturers kept this material at a particularly high level of sales and production last week, producers reported. The position of xylol continued, it was reported, in the face of slackening demand from the automobile industry.

A factor that may act as a further buoy to solvents and diluents, though in the long run it would act as a depressant to the entire economy, is the steel industry situation. With production from that area out, dealers noted, the only real source of xylol would be petroleum. However, this is not completely valid, coal tar producers reported, because of the extensive stocks already held by steel manufacturers.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended June 9 totaled 275,147,000 barrels according to data reported to the Bureau of Mines. Compared with the total of 275,693,000 barrels for the preceding week this represents a decrease of 546,000 barrels comprising a decrease of 1,444,000 barrels in stocks of domestic crude and an increase of 898,000 barrels in stocks of foreign crude.

Lighter Fractions

Production of LPG's during March, 1956, amounted to 4,243,000 barrels, according to the Bureau of Mines. This figure gave a daily average production of 137,000 barrels and compared with the February figure of 4,156,000 barrels. Both figures stand well above the March, 1955, figure of 3,451,000 barrels. Production for the first three months of the year stood at 12,915,000 barrels as compared with the previous year's first three month figure of 10,243,000 barrels.

LPG exports during March amounted to 355,000 barrels representing a daily average export figure of 11,000 barrels. This compared with the February, 1956, figure of 337,000 barrels and the March, 1955, figure of 898,000 barrels.

Waxes

Stocks of both microcrystalline and paraffin waxes totalled 517,000 barrels in March, 1956, compared to a total of 566,000 barrels the previous month, according to the Bureau of Mines. The figure for March of the previous year was 542,000 barrels. Stocks for January-March, 1956, were 517,000 barrels, compared with the 542,000 barrel average for the same period of the previous year.

Domestic demand for petroleum waxes in March totalled 442,000 barrels with a daily average demand of 14,000 barrels, compared with a 340,000 barrel domestic demand for February, 1956, and a 365,000 barrels demand for March of the year previous. Domestic demand for the first three months of 1956 was computed at 1,158,000 barrels, compared with the 1,020,000 barrels figure for the first three months of the previous year.

Miscellaneous

Crude Oil — The total demand for all oils in March, compared with March, 1955, showed a gain of 7.3 percent, including a decline of 3.8 percent in total exports and an increase of 7.7 percent in domestic demand. For the first quarter of 1956, total demand increased 5.8 percent, total exports declined 12.2 percent, and domestic demand gained 6.4 percent. Continued cool weather in April and May has resulted in a relatively large gain in the demand for heating oils and kerosine compared with mild weather in the same period of last year. While the cumulative forecasts for April, May and June for crude runs and the demand for domestic crude oil should approximate the actual, monthly operations will vary due to the very sharp cut in crude runs in April.

Crude oil production in Saudi Arabia during May amounted to 34,760,244 barrels or an average of 1,121,298 barrels per calendar day, it was reported. Crude processed at the Refinery at Ras Tanura during May amounted to 7,208,529 barrels or an average of 232,533 barrels per calendar day.

Crude oil production for the first five months of 1956 amounted to 158,067,199 barrels, an average of 1,039,916 barrels per calendar day. Crude run in the refinery for the same period was 33,192,845 barrels, an average of 218,374 barrels per calendar day.

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Allied Chemical

Coal Chemicals

The recent flurry of price changes was just about over by last week, it appeared. The several increases going into effect July 1 would scarcely compensate the sharp decline in the price index reflecting price reductions put into effect during the last three or four weeks. The index dropped from 115.01 to 114.69 in the last few weeks. On the strength of increases now scheduled to take effect July 1, it would regain only three points. Not many if any additional increases were expected at this late date, since contracts commonly provide that the producer must announce increases at least 15 days before the beginning of a calendar quarter.

Trade continued in the same groove last week. Benzol and xylol were eagerly sought as reports persisted that labor and management were far from agreement in the steel industry. Phenol was traded in heavy volume.

Naphthalene and phthalic anhydride were a bit easier, but a steel strike would change their situation immediately, it was said.

Value added by manufacture in the byproduct cokeoven industry in 1954 was $371,400,000, the advance report of the Census Bureau's census of manufactures indicated. The figure represented a 73 percent increase over the $214,965,000 value added in 1947, the last time the census was taken.

Data included 79 firms classified as primarily byproduct cokeoven producers in 1954 and 71 firms so classified (excluding 18 plants operated by public utilities) in 1947.

Cost of materials, fuel, electricity and contract work was put at $869,900,000 in 1954, bringing value of shipments to $1,241,300,000. The corresponding figures for 1947 were $632,876,000 costs and shipments valued at $847,741,000.

Number of employes increased from 29,943, in 1947 to 31,900 in 1954.

Steel mills shipped 7,783,873 net tons of finished steel products in April, the American Iron and Steel Institute reported, noting that the figure had been topped in only one previous month, March of this year, when the record 8,255,824 net tons of products was shipped.

Consumption by the automotive industry was off from 1,404,000 net tons in March to 1,153,000 net tons in April. Shipments to the construction and maintenance industry declined from 948,000 net tons in March to 898,000 net tons in April.

The Institute estimated steel production in the week ended June 24 would amount to 95.7 percent of theoretical capacity, equivalent to 2,355,000 tons of steel. This figure was compared to output of 2,299,000 tons in the previous week, 2,396,000 tons in the comparable week in May and 2,292,000 tons in the corresponding week a year ago.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	June 24, 1955
114.69	114.69	115.01	117.33

For Current Prices see Page 9

Basic Products

Benzol—The substantially increased imports of benzol in April (see table below) were valued at $1,565,703, which works out to 19.24c. per gallon. Its origin was behind the Iron Curtain.

Heavy imports from Russia and the Russian satellite countries were still coming in, but they were no menace to the robust health of the domestic market. Even before the threat of a steel strike had appeared, and even with production at a record rate, benzol had been in short supply. The possibility that a steel stoppage might occur, interrupting cokeoven production, has made the benzol shortage critical.

On the other hand, buyers' stocks were cumbersome. Producers foresaw a temporary lapse of demand should the steel industry settle its labor problems without a shutdown.

Cresols—Demand for all fractions was excessive. Imports meeting desired specifications were negligible. Domestic production remained at a high level, but a steel strike would be especially critical for consumers of cresols, it was indicated. Prices, though unchanged, were firm.

Cresylic Acid—Demand was said to be somewhat stronger in recent weeks, but trade was unchanged. About the same quantity of material with substantial cresols content was being offered, and all of it was being bought up promptly. The only acids in adequate supply were those with considerable xylenol content, in which there was little interest. Prices remained unchanged.

Naphthalene — Imports in April (see table below) were somewhat off from those of the month previous. Their value, put at $420,039 for material distilling at 79°C and over, worked out to about 5.85c. per pound.

The domestic market continued soft. This position, a complete reversal from that of several months ago, was determined by the easier demand for phthalic anhydride, record yields from cokeoven operations and heavy imports. Producers said a steel strike would change the picture radically overnight.

Prices were steady here, but there was price softness in Europe. There were too many variables to consider in order to determine whether the price picture abroad would be reflected later in this country.

The advance report of the 1954 census of manufactures indicated production of naphthalene was 100,060,000 pounds in 1954, sales and interplant transfers amounting to 98,526,000 pounds valued at $4,389,000.

Phenol—Producers again noted more urgent demand attributable to price increases going into effect July 1 and uncertainties associated with the labor situation in the steel industry. There was no appreciable change in volume of sales, however, as virtually all phenol supply had been spoken for by the time it was produced.

Aside from the firming influence of the moment, phenol was seen to be in a very strong position. Major consuming industries, the plastics and pharmaceuticals, for example, were regarded as having high

Aromatics Foreign Trade: April

Following are statistics compiled by the Bureau of Census summarizing the movement of certain aromatic chemicals in foreign commerce. Units employed by the Census Bureau have been retained in all cases. Attention is called to the fact that exports of toluol are reported in pounds and that cresols and cresylic acid ADF imports are given in gallons, while dutiable cresols and cresylic acid imports are reported in pounds.

		April 1956	*First Four Months 1956*
EXPORTS			
Benzol	gals.	42,075	905,336
Phenol	lbs.	3,134,930	9,833,753
Phthalic Anhydride	lbs.	210,420	1,089,820
Pitch, from coaltar	tons	5,751	15,047
Toluol	lbs.	1,476,741	16,690,193
IMPORTS			
Benzol	gals.	8,137,657	20,820,647
Creosote and dead oil	gals.	6,499,537	12,081,814
Cresols and cresylic acid, ADF	gals.	220,717	891,367
Dutiable	lbs.	149,522	422,632
Naphthalene, distilled at less than 79° C.	lbs.	7,176,932	29,596,047
Distilling at 79° C and over	lbs.	.....	290,940
Xylol	lbs.	.....	45,934

Coal Chemicals

potential for long-term growth. Producers were confident that there would soon be need for the substantial excess production capacity now maintained on a standby basis.

Toluol—Exports in April (see table below) were off precipitously from the 5,644,307 pounds exported in the month previous. Value of April exports was put at $79,629, or slightly less than 5.4c. per pound.

It was at about that time (April) that reports became persistent that the Russians were dumping cheap cokeoven toluol in Italy and Germany. Since then, Russian toluol from petroleum sources has also been appearing at cut prices in Europe.

Petroleum producers here had not reduced prices to match the reduced quotations put into effect at several eastern production centers by the cokeoven producers. In view of the strong possibility of a strike in the steel industry, and resultant interruption of cokeoven production, it was considered unlikely that petroleum producers would move until a steel strike or the threat of one should pass. If cokeoven output were interrupted, consumers would have no choice but to buy petroleum toluol once the very heavy inventories of cokeoven toluol had been depleted.

Coal Chemicals

Estimated output of coal chemicals recovered from cokeoven operations during the week ending June 24 was as follows:—

Ammonia liquor	lbs.	916,764
Ammonium sulfate	lbs.	39,036,390
Benzol	gals.	3,489,617
Coaltar	gals.	17,152,353
Creosote oil	gals.	665,393
Naphthalene, crude	lbs.	3,711,414
Pyridine, refined	lbs.	13,308
Toluol	gals.	768,899
Xylol	gals.	221,798

Dyes

A preliminary report of the Tariff Commission indicated that production of dyes in 1955 amounted to 167,000,000 pounds, an increase of 17 percent over the 1954 figure of 143,000,000 pounds. A statistical breakdown is given in the current issue of OPD on page five.

Intermediates

Phthalic Anhydride—Substantial inventories at producers' plants, a new phenomenon for phthalic anhydride, were now rather generally apparent.

Most of the decline in demand was attributed to the sluggish behavior of the automotive trade. Plastics continued to make strong demand and were not letting up in prospects for long-term growth.

Producers were still optimistic for the long pull. They viewed the automotive situation as merely a rather painful and somewhat drawn-out adjustment and were counting heavily on the growth potential of other outlets.

Slowing Down

—Continued from page 3

reduction in inventories, especially unworked stocks. As reported last month, the accumulation of goods against market uncertainties is diminishing. There were 31 percent with higher inventories in June; 50 percent said no change, and 19 percent reported less carryover than in May.

Employment

Continuing last month's report of declines in the number of persons on pay rolls, 22 percent say they have fewer this month. The number reporting their rolls the same increased to 64 percent from May's 58 percent. Those indicating greater employment dropped to 14 percent, the smallest number since March of 1954.

Most were optimistic, however, feeling that employment would pick up again later in the summer, with brighter prospects for the third and fourth quarters.

Buying Policy

An increase from 22 percent in May, to 27 percent in June, of those buying in the thirty-day range on production materials is noted this month. A corresponding drop from 39 percent to 32 percent, is reported in the sixty-day range. Those indicating lead time of more than sixty days remained the same, while the hand-to-mouth buyers increased to 5 percent.

On MRO supplies, the majority continue to buy in the thirty- to ninety-day range. The percentages reported are: Hand-to-mouth—16 percent, thirty days—39 percent, sixty days—26 percent, ninety days—19 percent, 120 days and over—1 percent.

Capital expenditure purchases, as expected, stay predominantly in the 120 days and over category, with 62 percent so reporting. The next largest grouping is in the ninety-day range, with 17 percent. There are 12 percent reporting sixty days' lead time, with 2 percent reporting thirty days and 7 percent are on a hand-to-mouth basis.

Specific Commodity Changes

Price advances reported by committee members this month can best be categorized as weak.

On the up side are: Aluminum, some steel items, phenol, alcohol, paper, meats, lumber, gasoline and electrical equipment.

On the down side are: Brass, copper, copper scrap, steel scrap, mercury, ammonia, waste paper, rubber and vegetable oils, including linseed oil.

In short supply are: Aluminum, some copper products, nickel, steel (structural, alloy, plate, pipe, stainless, sheets and shapes) and monel.

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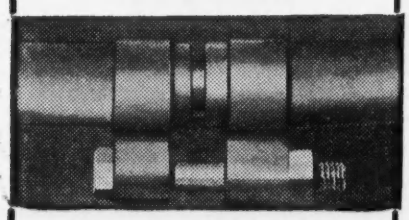

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Drugs, Fine Chemicals

The spot market was quiet and unchanged last week. The flurry of price changes in other markets set for the third quarter has not been paralleled in drugs, it was noted current schedules were expected to hold substantially unchanged through the third quarter. A decline in the price of silver metal in midweek was not reflected in a reduction in the price schedules of the silver salts, it was noted.

Overall inquiry for virtually all of the synthetic vitamins continues at an excellent rate according to trade reports. In the case of thiamin salts, there has been an increasing shift to the mononitrate in preference to thaimin hydrochloride, it was noted. The flow of lower priced imported vitamins has noticeably fallen off over recent months and productive capacity of domestic manufacturers continued to assure an ample vitamin supply, meeting the high standards of American pharmaceutical manufacturers.

Tannic acid continues in a very firm market position in view of the raw materials situation. The constant threat of war in the Middle East has been plaguing tannic producers here as prices continue to rise at origin. Seasonal items such as citric acid, photographic chemicals and sodium benzoate continue to move at seasonally good levels. Also included were a number of chemicals which go into cosmetic and suntan preparations.

Dealers in podophyllum resin and aloin were reported to be anticipating the new crop with some eagerness. The shortage and consequent high price of mandrake root drove the price of podophyllum resin up on at least two occasions last year. In the commodities market, buyers' interests were reported seasonally slowed in a number of items. Camphor was in generally poor inquiry since the requirements of moth prevention have been largely taken care of for this season while natural menthol was also in fair demand, at best. Pharmaceutical manufacturers will not be buying for this winter's needs until after the vacation period, for the most part, it was noted.

P-Aminosalicylic Acid—The long-awaited report of the Tariff Commission on the matter of withdrawing concessions on tariff rates on PAS acid and salts was recently released with no recommendations made either pro or con. The decision will rest solely with the executive branch of the government.

Last year a major producer of PAS in this country complained that the reduction in tariff rates on this drug as a part of the Torquay tariff agreement was responsible for a steady rise in PAS imports to the serious detriment of the domestic industry, in view of the lower prices on the imported material.

Three of the six commissioners found that bulk PAS was being imported in quantities threatening serious injury and recommended that the duty on imports be increased to 5 cents per pound plus 35 percent ad valorem. The commissioners favoring relief further noted that imports had increased from 2,100 pounds in 1950, the year preceding the duty reduction, to 499,400 pounds in 1955.

The other three commissioners who opposed any change in the tariff concessions stated that commercial production of PAS both here and abroad has been developed entirely within the past eight years. The steady expansion of production by the major domestic producer, they said, has contributed to the steady reduction in the number of other domestic producers of PAS. In the presence of at least a slight preference for the domestic over the imported product, it was added, this company is now actively competing with imports of PAS on a price basis.

Camphor—Demand for synthetic camphor was reported to be progressing at a routine rate for this time of the year. The seasonal demand for tablets has eased off with the passing of spring, it was noted. Supplies are adequate to accommodate trade requirements while prices were unchanged.

Irish Moss—Trials were reported under way last week in the testing of a mechanical reaper for the "harvesting" of Irish moss which could open up many miles of coast line for the gathering of this red sea plant. To date, collection of this material in this country has been restricted to a few areas where it could be gathered by hand. If an economical mechanical method of collection is perfected, some trade sources foresee the possibility of lower prices and a consequent expansion of the market.

Overall consumption of Irish moss could increase considerably if more were available than has been, it was pointed out, since industry has come to depend more on mass produced and standardized red seaplant extractives for a number of uses. Aside from its use in various phases of food processing, extractives of this sea plant have been found useful in a number of divergent applications. These extractives were reported to be going into shampoos and hand lotions and in time, may find use in soap manufacture. The wire making industry uses seaplant extractives as a suspending agent for the graphite lubricant used in drawing certain types of wire, it was noted.

Molasses—Demand for feed molasses was seasonally slow-to-moderate during the week ending June 19, 1956. Feed molasses prices were unchanged at most terminals. The New Orleans blackstrap price was mostly 15 cents per gallon. Blackstrap prices at feed mixing centers were increased slightly, adjusting to higher New Orleans base price. Gulf area and East coast demand for blackstrap was slow-to-moderate, while demand on the West coast continued moderate-to-good. Supplies of blackstrap were adequate at all terminals. Citrus molasses supplies were exhausted at Bartow and Tampa, with supplies at all other Florida mills very imited.

As of May 31, 1956, Cuban production of blackstrap molasses amounted to 211,511,094 gallons. The yield of blackstrap per short ton or raw sugar produced was 40.7 gallons. High-test molasses production was 108,727,585 gallons as of May 31 with only 2 of the original 35 mills producing this type of molasses still in operation. This is 103 million gallons short of the total high-test sold, subject to ability to deliver. Seventy-five million gallons were sold in December, 1955, to U. S. alcohol producers and 136,000,000 to other buyers. The price paid for the former was 1¼c. per pound of sugar content, and for the latter 1.40c.

Tannic Acid — The market continued quite firm in the face of a tight situation in raw materials. The outlook was for continued firmness and of course always the possibility exists that manufacturers may be forced to reflect in tannic acid quotations the steady rise in raw materials costs.

Thiamin Hydrochloride — Demand for thiamin hydrochloride has been easing off in favor of the mononitrate, according to a pharmaceutical source. Overall demand for thiamin salts, however, was being sustained at a good pace. Supplies were ample and prices unchanged.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	June 24, 1955
65.85	65.85	65.84	67.16

For Current Prices see Page 9

Botanicals

The spot market remained unchanged last week. The collection season at origin has begun to move into high gear and first arrivals of a number of botanicals were expected to start coming into this market in volume in the weeks to come. Buying by pharmaceutical manufacturers was seasonally slack for the most part and as a result, consumers have not made

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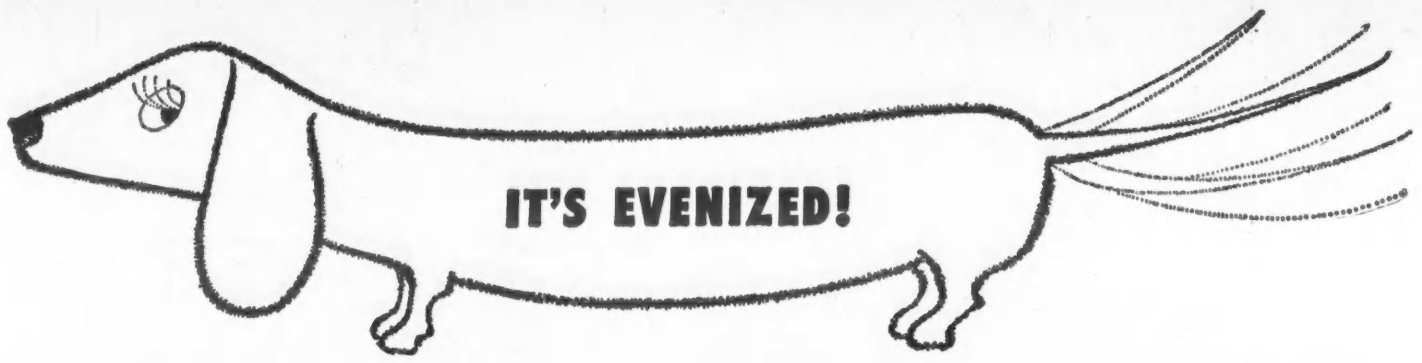

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their requirements fully known to botanicals dealers.

This situation has been a perennial one and frequently is responsible for the shortages in the most wanted items which develops later in the year. Botanicals' dealers try to accurately gauge the extent of potential demand and adjust their buying plans accordingly. This is not always fully successful, however, and items for which collectors are paid a low price early in the season are frequently neglected and when demand does develop, it is extremely difficult to get the collectors to turn their attentions to its collection. The independence of the mountain people who gather botanicals is well known and the increased opportunity for employment in the many industrial plants which have sprung up all over the South has fostered an even greater feeling of economic independence, it was noted.

Collections of botanicals in Europe has been hit by the damage done to the crops there as a result of the severe frost which characterized last winter there. Trees split open and buds on plants were destroyed by the temperature extremes and the full damage has not become evident until now. The constant threat of war in the Middle East has failed to have any noticeable effect upon the spot botanical market here. Consumers have failed to be stirred by the possibility of supply sources being cut off and botanicals dealers have been building up their inventories of items shipments of which could be hit by a war. Having lived in a decade when crisis follows upon crisis, most consumers have been very slow to see any real threat and furthermore, they depend upon botanicals dealers to maintain sufficiently large inventories to meet any emergency.

Armour Laboratories Makes Tarbet Its Director of Sales

C. W. Tarbet has been appointed sales director of Armour Laboratories. Mr. Tarbet started in the pharmaceutical industry in 1922 with Deshell Laboratories and later joined American Home Products Corporation, where he spent twenty-five years.

Mr. Tarbet then became vice-president of Muller and Phipps (Asia, Ltd.). He also spent two years in the Armed Forces, assigned to the Surgeon General's affice as a lieutenant colonel in the sanitary corps, Medical Department.

At the same time, Mr. Patch announced the appointment of J. C. Libby as personnel manager. Mr. Libby had been with Johnson & Johnson as an assistant personnel director and later was with White Pine Copper Company as director of personnel.

Botanicals Users

—Continued from page 5

spring may be gained from the following tabulation, based on 1956 prices in comparison with 1955:

	Percent advanced
Angelica root	40
Balm of gilead buds	50
Balmony leaves	65
Black haw, tree bark	65
Gelsemium root	80
Ginseng root	10
Golden seal root	33
Jersey tea, root bark	75
Lady's slipper root	65
Lettuce leaves, wild	65
Mandrake root	36
Pipsissewa herb	65
Sassafras bark, select	40
Wild cherry bark, thin	60
Wintergreen leaves	40
herb	65
Witch hazel leaves	50

At present, all primary market signs point to a very conservative collection at much higher cost to suppliers this year. One supplier says prices paid this year are going to be the highest in history. To consumers assured stocks of raw materials overshadows their cost, and the wisdom of early buying on contract is more evident than usual this year. Prices to manufacturing consumers are not apt to go below their present levels. At least, so say suppliers.

Methyl Acetate Offered In Quantity by Borden

Methyl acetate is now available in large commercial quantities from the polyco-monomer department of Borden Company's chemical division.

The item is a lower cost acetylating agent and replacement for ethyl acetate, other higher esters and acetic anhydride. Its uses include the manufacture of dye intermediates, flavorings, fine chemicals, vitamins, drugs and other pharmaceuticals and leather processing.

Butadiene Plant Sale

—Continued from page 3

Introduction of a bill last week (H. R. 11813) for re-offering the plant for sale with a provision that the plant need only produce chemicals "important to the national security" for the next ten years. When the bill came up for hearing last Wednesday, however, it ran into strong objections from several committee members.

They said that if the committee reported the bill, it would be saying, in effect, that never again will this country need this plant for the production of alcohol-butadiene, even in an emergency.

They said that they would not accept such responsibility without it being supported by the Department of Defense, the Office of Defense Mobilization and the Department of the Interior.

Testimony the next day from a representative of the Department of Defense that it had no objection to the plant being sold for general chemical purposes, and from a representative of the Interior department on the capacity of industry to produce butadiene from petroleum, however, failed to shake the opposition.

The upshot was that the bill was dropped and the committee voted unanimously for a simple extension of the life of the disposal agency.

V-C Calls Meeting

—Continued from page 3

stockholders at the recent management-insurgent meeting. He said, following the meeting, "We appeared before the board under authority . . . of owners of more than 49 percent of the shares of this corporation."

Rupert T. Zickl, a member of the board of directors, who is listed as the owner of 10,000 shares of the company stock, is alleged to be the leader of the insurgent group. Illness kept him from attending the latest meeting. He is the one the company management hopes to oust at the special meeting.

Joseph A. Howell, president of V-C, said after the meeting that the stockholder group refused to propose any program "for the improvement of the policy and operations of this company."

Instead, he said, the group "insisted on attempting to discuss results of a straw poll they have taken of stockholders and which they apparently hoped to use to continue their pressure on the present board to give them control."

Minerals Buying Bill

—Continued from page 7

than 1,000 short ton units, the price is to be $63 per short ton unit.

Asbestos—2,000 tons of crude No. 1 and crude No. 2 combined of chrysotile asbestos, and 2,000 tons of crude No. 3 when offered with crude No. 1 or No. 2, at the price prevailing on January 1, 1956.

Fluorspar—Not less than 250,000 tons of newly-mined acid grade fluorspar at a price of $53 per short ton.

Columbium-tantalum—250,000 pounds of columbium-tantalum at prices in effect on December 1, 1955.

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	No. 1 Calcined Magnesite	No. 5 Calcined Magnesite	No. 15 Calcined Magnesite	No. 30C Light Calcined Magnesia	No. 40 Extra Lt. Calcined Magnesia	Basic Magnesium Carbonate	(NF Grade) Magnesium Hydroxide	(Tech. Grade) Magnesium Hydroxide
Bulk density, weight per cubic foot	60 lb.	28 lb.	24 lb.	8½ lb.	5 lb.	5.5 lb.	15 to 25 lb.	app. 20 lb.
Ignition loss:	0.5%	1.5%	2.5%	1.9%	3.0%	56.5%	PASSES N. F. IX SPECIFICATIONS	31.4%
Chloride (as Cl):	0.08	0.1	0.2	0.25	0.25	0.1		
Analysis, ignited basis:						NOT IGNITED		NOT IGNITED
SiO_2	0.3	0.3	0.3	0.3	0.3	0.15		0.20
Fe_2O_3	0.2	0.2	0.2	0.2	0.2	0.08		0.15
AL_2O_3	0.2	0.2	0.2	0.2	0.2	0.08		0.15
CaO	1.0	1.0	1.0	1.0	1.0	0.7		0.7
Mn				0.01	0.01	0.00		
Free Moisture						1.5		2.0
Screen test: Through 200 mesh		95%		99.9%	99.9%	99.99%	99.0%	99.0%
Screen test: Through 325 mesh			99.5%	99.5%	99.5%	99.5%		

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ACETOACINILIDE—250 kgs, Rohner Gehrig, Liverpool
AGAR—10 bls, Lo Curto & Funk, Kobe
ALBUMEN, EGG—2 bbls, W Koch Co, Dublin
ALUMINUM SULFATE — 662 bgs, Philip Bros, Chemicals, Bremen
AMMONIUM BICARBONATE—200 dms, Chemical Manufacturing Co, Middlesbrough
CHLORIDE—6 dms, Hoffman La Roche Inc, Hamburg
THIOSULFATE—5 dms, Lo Curto & Funk, Rotterdam
ANILINE DYES—4 dms, C A Haynes, Rotterdam
59 dms, Sandoz Chemical Works, Havre
6 cks, Van Oppen & Co, Havre
1 dm, Heemsoth Kerner, Liverpool
9 dms, Ciba Co, Bremerhaven
59 dms, Geigy Chemical Corp, Bremerhaven
101 dms, Hensel Bruckmann & Lorbacher, Hamburg
ANIMAL GREASE—50 cks, Otto Roth & Co, Antwerp
ANNATTO SEED—100 bgs, Marcel Calvert, Ciudad Trujillo
ARABIC GUM—661 bgs, National City Bank, Port Sudan
351 bgs, Bank of N Y, Port Sudan
500 bgs, Irving Trust Co, Port Sudan
400 bgs, Port Sudan
ASBESTOS FIBER—400 bgs, Davies Turner & Co, Durban
600 bgs, Durban
BARBASCO ROOT—102 bls, Astoria Panamericana, Callao
55 bgs, J H Rossbach & Sons, Callao
BARIUM CARBONATE—2,000 bgs, Rotterdam
BARYTES—1,200 bgs, H C Bugbird, Algiers
BEESWAX—30 bgs, Schutte & Focke, Ciudad Trujillo
120 bls, Poons Co, Buenos Aires
43 bgs, Machado & Co, Ciudad Trujillo
220 bgs, Duncan Fox & Co, Talcahuano
100 bgs, Talcahuano
27 bbls, Cap Haitien
21 bgs, Vera Cruz
54 bgs, Tampico
BENZYL ACETATE—2 cks, Lo Curto & Funk, Havre
BERGAMOT OIL—20 hf cs, Citrus & Allied Essential Oils, Messina
BISMUTH—73 cs, Cerro de Pasco Corp, Callao
BONE ASH—10 bgs, Hamburg
BUCHU LEAVES—11 bls, Meer Corp, Capetown
10 bls, Capetown
BURNT SIENNA—37 cks, Leghorn
BUTTONLAC—200 bgs, Schwab Bros, Calcutta
25 bgs, Gillespie Rogers Pyatt, Calcutta
CABREUVA OIL—1 dm, Antoine Chiris, Itajai
CADMIUM—221 cs, Ore & Chemical Corp, Antwerp
220 cs, Antwerp
CALCIUM CARBONATE, PRECIPITATED — 800 bgs, H J Baker & Bro, Liverpool
NITRATE—700 bgs, McKesson & Robbins, Oslo
CAMPHOR POWDER—600 cs, Lo Curto & Funk, Keelung
10 cs, Fine Organics Inc, Keelung
CANDELILLA WAX—409 bgs, Tampico
CARAWAY OIL—2 dms, Magnus Mabee & Reynard, Rotterdam
SEED—200 bgs, Levy & Levis Co, Rotterdam
100 bgs, P H Petry, Rotterdam
100 bgs, Joel Bieler Co, Rotterdam
150 bgs, I Grob, Rotterdam
100 bgs, Biddle Purchasing Co, Rotterdam
1,250 bgs, Ludwig Mueller, Rotterdam
200 bgs, Rotterdam
CARBON, DECOLORIZING—60 dms, American Cyanamd Co, Bremen
CARNAUBA WAX—56 bgs, Cornelius Wax Refining, Rio de Janeiro
38 bgs, J H Schroeder, Rio de Janeiro
560 bgs, River Plate Corp, Salvador
112 bgs, D Levin, Salvador
166 bgs, Bahia Ceras Products, Salvador
CASCARILLA BARK—10 bls, Fritzsche Bros, Nassau
QUILLS—14 bgs, F D Keller & Son, Nassau
CASEIN—2,000 bgs, Borden Co, Buenos Aires
1,000 bgs, National City Bank, Buenos Aires
668 bgs, Crawford Kish & Co, La Pallice
CASHEWNUT SHELL LIQUID—60 bbls, Marine Trust Co, Cochin
CASSIA FISTULA PODS—25 bgs, Meer Corp, Kingston
CASTOR BEANS—1,695 bgs, Baker Castor Oil Co, Salvador
1,862 bgs, Spencer Kellogg, Gonaives
160 bgs, Port Au Prince
OIL—300 tons, Woodward & Dickerson, Salvador
77 dms, Woodward & Dickerson, Salvador
55 tons, Baker Castor Oil Co, Buenos Aires
CELERY SEED—33 bgs, Otto Gerdau, Marseille
CETYL BROMIDE—5 dms, Heemsoth Kerner, Liverpool
CHLORINATED RUBBER—600 bgs, C M C Chemicals Inc, Liverpool
CHLOROPHYLL—1 cs, Chas L Huisking & Co, Southampton
CINNAMON QUILLS—25 bls, Colombo
CITRONELLA OIL—15 dms, United Global Corp, Keelung
25 dms, Shuton Inc, Keelung
25 dms, Keelung
CLOVE—100 bgs, Lo Curto & Funk, Tamatave
200 bgs, M Fakra, Tamatave
200 bgs, W Winner, Tamatave
100 bgs, Karl H Landes & E Balint, Tamatave
60 bgs, Halford Lewis Co, Tamatave
100 bgs, Ufinindo International Corp, Tamatave
190 bgs, Tamatave
300 bgs, Djibouti
OIL—19 dms, Ufinindo International Corp, Tamatave
COALTAR DYES—18 dms, Geigy Chemical Corp, Bremerhaven
9 cks, C A Haynes, Havre
4 dms, Hensel Bruckmann & Lorbacher, Bremen
9 dms, Nova Chemical Corp, Rotterdam
30 bbls, Toms River Cincinnati Chemical Corp, Rotterdam
26 bbls, Antwerp
2 cans, Antwerp
COCA LEAVES — 294 bls, Maywood Chemical Works, Mollendo
COCONUT OIL—660 tons, American Trust Co, Zamboanga
350 tons, Cargill Inc, Manila
816 tons, Manila
CODLIVER OIL—300 dms, Peder Devold Oil Co, Alesund
100 dms, Atlas Refinery, Bergen
59 dms, National City Bank, Lisbon
COPAL GUM—14 bgs, Gillespie Rogers Pyatt, Singapore
35 bgs, O G Innes Corp, Singapore
64 bgs, Archer Daniels Midland Co, Manila
COPPER OXIDE, RED—10 dms, Hudson Shipping Co, Hamburg
CORN STARCH—1,160 bgs, Rotterdam
COSILLAN BARK—472 bls, S B Penick & Co, Mollendo
CREAM OF TARTAR—500 bgs, Nylos Trading Co, Genoa
m-CRESOL—10 dms, H A Gogarty, Liverpool
54 dms, Koppers Co, Gothenburg
CRESYLIC ACID—1,028 dms, H A Gogarty, Liverpool
75 dms, Kopers Co, Glasgow
CUBE ROOT—231 bgs, Foreign Domestic Distributors, Callao
CUTTLEFISH BONE—79 cs, Guaranty Trust Co, Madras
200 cs, Guaranty Trust Co, Kobe
DAMMAR GUM—140 bgs, O G Innes Corp, Singapore
28 bgs, France, Campbell & Darling, Singapore
14 bgs, Gillespie Rogers Pyatt, Singapore
42 bgs, Wm H Scheel, Singapore
DEXTRIN—400 bgs, Stein Hall & Co, Rotterdam
CALCIUM PHOSPHATE, DIBASIC — 2,204 bgs, Wessel Duval & Co, Antwerp
DOGWOOD BARK—130 bgs, S B Penick & Co, Kingston
EARTH COLORS—1,200 bgs, Naftone Inc, Bremen
450 bgs, Reichard Coulston, Bremen
2,242 bgs, Naftone Inc, Rotterdam
ELEMI GUM—132 cs, O G Innes Corp, Manila
ETHYL VANILLIN—5 cks, Lo Curto & Funk, Havre
ETHYLENE GLYCOL UNDECANE DICARBONATE —2 cs, Havre
FISHLIVER OIL—5 dms, Consumers Import Co, Yokohama
5 dms, Wilbur Ellis Co, Yokohama
2 dms, Asahi N Y Inc, Yokohama
FUEL OIL—324,662 bbls, Esso Standard Oil Co, Aruba
60,000 bbls, Esso Export Corp, Aruba
122,143 bbls, Metropolitan Petroleum Corp, Curacao
212,924 bbls, Asiatic Petroleum Corp, Curacao
185,045 bbls, Paragon Oil Co, Tampico
112,489 bbls, Shell Caribbean Petroleum Co, Punta Cardon
76,269 bbls, Central Petroleum Corp, Punta Cardon
GALL, OX—9 cs, Van Gelder Fanto Corp, Buenos Aires
GELATIN—200 bgs, Manhattan Paste & Glue Co, Hamburg
15 dms, Hensel Bruckmann & Lorbacher, Rotterdam
100 bgs, Hensel Bruckmann & Lorbacher, Rotterdam
300 bgs, Kind & Knox, Havre
400 bgs, T M Duche & Sons, Havre
100 bgs, T M Duche & Sons, Hamburg
GERMANIUM DIOXIDE—50 cs, American Metal Co, Antwerp
GINGER—117 bgs, Kellys America Ltd, Kingston
76 bgs, A G Dunn, Kingston
310 bgs, Karl H Landes & E Balint, Kingston
36 bgs, Frank Fehr & Co, Kingston
47 bgs, Otto Gerdau, Kingston
50 bgs, Shippers Produce Corp, Kingston
57 bgs, Mincing Tradng Corp, Kingston
60 bgs, D Steengrafe & Co, Kingston
287 bgs, Chemical Bank, Freetown
91 bgs, J H Schroeder, Freetown
184 bgs, National City Bank, Freetown
PEEL—151 bgs, S B Penick & Co, Kingston
GLUESTOCK—344 bgs, Karr Ellis & Co, Liverpool
GRAPHITE—300 bgs, Joseph Dixon Crucible Co, Tamatave
500 bgs, C Pettinos, Tamatave
2,556 bgs, Asbury Graphite Mills, Bergen
750 bgs, Asbury Graphite Mills, Colombo
250 bgs, Joseph Dixon Crucible Co, Colombo
800 bgs, Asbury Graphite Mills, Hong Kong
1,200 bgs, Asbury Graphite Mills, Bremen
GYPSUM—8,199 tons, U S Gypsum Co, Hantsport
3,504 tons, Allied Chemical & Dye Corp, Halifax
15,160 tons, National Gypsum Co, Halifax
600 bgs, C B Crystal Co, Liverpool
200 bgs, A Gusmer, Liverpool
HEXYLRESORCINOL—1 cs, Red Star Chemical Co, Hamburg
IGNATIUS BEANS—2 bgs, Meer Corp, Hamburg
IODINE—CRUDE—327 kgs, Antony Gibbs & Co, Tocopilla
IRON BLUE—10 dms, Van Oppen & Co, Liverpool
CHLORIDE—121 dms, Rotterdam
JALAP ROOT—15 bgs, Vera Cruz
KELP—112 bgs, S B Penick & Co, Bergen
LIME OIL—1 dm, Estate Trading Co, Port Au Prince
4 dms, Vera Cruz
LITHARGE—368 dms, Eagle Picher Co, Tampico
100 bgs, Vera Cruz
LOCUST BEAN GUM—220 bgs, Bank of N Y, Liverpool
1,390 bgs, Stein Hall & Co, Genoa
LOGWOOD EXTRACT—311 cks, American Dyewood Co, Kingston
MAGNESITE—750 bgs, H A Gogarty, Madras
935 bgs, Golwynne Chemical Corp, Cochin
MAGNESIUM CARBONATE—75 cs, Chas L Huisking & Co, Liverpool
TRISILICATE—40 cs, R J Saunders & Co, Liverpool
MANGROVE BARK—769 bgs, Durban
769 bgs, Lourenco Marques
EXTRACT—112 bgs, Barkey Importing Co, Lourenco Marques
223 bgs, Lourenco Marques
MENTHOL—125 cs, Lo Curto & Funk, Santos
25 cs, Pacific Vegetable Oil Corp, Santos
MERCURY—50 flks, Livingston & Southard, Tampico
500 flks, Swiss Credit Bank, Leghorn
125 flks, Leghorn
982 flks, Cadiz
2-METHYLNAPHTALENE—15 dms, F L Kraemer, Rotterdam
MOLASSES—329,000 gals, Industrial Molasses Corp, Jucaro
1,022,021 gals, Industrial Molasses Corp, Bridgetown
BEET—1,516 tons, Standard Brands, Rouen
3,406 tons, Standard Brands, Havre
MONTAN WAX—1,006 bgs, Strohmeyer & Arpe, Hamburg
66 bgs, Cornelius Wax Refining, Rotterdam
MUSTARD SEED—150 bgs, Berns & Koppstein, Copenhagen
NAPHTHALENE—1,089 bgs, Standard Naphthalene Products Co, Rotterdam
200 bgs, Gallard Schlesinger, Bordeaux
581 bgs, Rotterdam
NAPHTHENIC ACID—2,395 bbls, Esso Standard Oil Co, Aruba
NAPHTHOL—20 dms, Hensel Bruckmann & Lorbacher, Hamburg
NICKEL CHLORIDE—100 bgs, Philipp Bros, Chemicals, Hamburg
2 bbls, D Hauser, Antwerp

NICKEL FORMATE—600 bgs, Archer Daniels Midland Co, Bremen
SULFATE—33 bbls, Overseas Metal & Ore Corp, Gothenburg
m-NITRO-p-TOLUIDINE—8 dms, A V Berner & Co, Liverpool
NUX VOMICA—1,600 bgs, Volkart Bros, Cochin
ORANGE PEEL—75 bgs, S B Penick & Co, Cap Haitien
PALO SANTO OIL—67 cs, Herman Hollander, Buenos Aires
PAPAIN—51 cs, Chas L Huisking & Co, Colombo
40 cs, Mombasa
PAPRIKA—50 bgs, J Raphael & Son, Valparaiso
PATCHOULI OIL—21 cs, Kane Import Corp, Penang
PEATMOSS—2,000 bls, New Amsterdam Import Co, Aarhus
300 bls, Lion Trading Co, Bremen
1,250 bls, E Dunwoody, Bremen
1,250 bls, Marine Midland Trust Co, Bremen
3,565 bls, Premier Peatmoss Corp, Bremen
1,000 bls, Ascot Peatmoss Corp, Bremen
1,500 bls, Trans Sphere Trading Corp, Bremen
997 bls, Gelico Inc, Bremen
500 bls, C Fafard, Bremen
3,000 bls, J E Bernard, Hamburg
500 bls, Premier Peatmoss Corp, Hamburg
603 bls, E J Lang, Hamburg
1,7750 bls, Bruco Peatmoss Corp, Bremen
1,300 bls, New Amsterdam Import Co, Bremen
PECTIN—42 bbls, T M Duche & Sons, Copenhagen
PEPPER, BLACK—800 bgs, Volkart Bros, Cochin
140 bgs, Irving Trust Co, Singapore
560 bgs, Cochin
RED—193 bgs, M J Golombeck, Mombasa
100 bgs, M S Cowen, Kobe
32 bgs, George Lueders & Co, Kingston
40 bgs, Kellys America Ltd, Kingston
80 bgs, M J Golombeck, Kingston
224 bs, Otto Gerdau, Kingston
80 bgs, Bankers Trust Co, Kingston
104 bgs, Louis Furth, Kingston
240 bgs, A G Dunn, Kingston
48 bgs, R J Spitz, Kingston
80 bgs, Becker Mayer Seed Co, Kingston
WHITE—105 bgs, A G Dunn, Singapore
PEPPERMINT OIL—10 cs, J Haywood & Sons, Kobe
PETITGRAIN OIL—6 dms, P C Mitchel, Buenos Aires
11 dms, Herman Hollander, Buenos Aires
67 cs, E Buschoff & Co, Buenos Aires
PETROLEUM, CRUDE—205,830 bbls, Esso Standard Oil Co, Puerto La Cruz
117,593 bbls, Scony Mobil Oil Co, Covenas
PHENYLETHYLACETAMIDE—1 dm, Red Star Chemical Co, Hamburg
PICOLINE—53 bbls, George A Abood Co, Rotterdam
PIMENTOLEAF OIL—2 dms, Magnus Mabee & Reynard, Kingston
5 dms, Norda Essential Oil Co, Kingston
5 dms, Dodge & Olcott, Kingston
1 dm, W J Bush & Co, Kingston
2 dms, S B Penick & Co, Kingston
POLYETHYLENE—2 dms, Union Carbide Intern Co, Bremen
POPPY SEED—150 bgs, Hoger Corp, Gdynia
250 bgs, Levy & Levis Co, Gdynia
450 bgs, Joel Bieler Co, Gdynia
200 bgs, Wagner Bros, Buenos Aires
200 bgs, Levy & Levis Co, Buenos Aires
100 bgs, R J Spitz, Rotterdam
100 bgs, Biddle Purchasing Co, Rotterdam
100 bgs, I Grob, Rotterdam
250 bgs, Rotterdam
POTASSIUM CHROME ALUM—6 bbls, L B Russell Chemicals Inc, Antwerp
FERRICYANIDE—30 dms, Antwerp
METABISULFITE—100 cks, H Reisenberg, Rotterdam
PERCHLORATE—25 bbls, Chilean Nitrate Sales Corp, Antofagasta
POTATO STARCH—600 bgs, Stein Hall & Co, Rotterdam
QUASSIA LOGS—28 tons, S B Penick & Co, Kingston
QUEBRACHO EXTRACT—2,342 bgs, Tanimex Corp, Buenos Aires
1,645 bgs, H Elkan & Co, Buenos Aires
QUINIDINE SULFATE—10 dms, Lo Curto & Funk, Hamburg
RICE STARCH—250 bgs, Morningstar Nicol, Antwerp
240 bgs, Stein Hall & Co, Bremerhaven
ROSE HIP EXTRACT—8 dms, Barth Levitt Products, Gothenburg
ROSEWOOD OIL—9 dms, Astoria Panamericana, Callao
ROSIN—14 cs, Schutte & Focke, Ciudad Trujillo
RUTILE SAND—700 bgs, Genoa
SAGE OIL— 2 cs, Havre
SAGO FLOUR—109 bgs, Manhattan Paste & Glue Co, Singapore
345 bgs, R Lenard & Co, Singapore
SANDALWOOD—200 bgs, S B Penick & Co, Madras
144 bgs, George Lueders & Co, Madras
OIL—5 cs, Roure-Dupont Inc, Madras
SARSAPARILLA ROOT—4 bls, Kingston
SASSAFRAS OIL—10 dms, George Lueders & Co, Kobe
SABADILLA SEED—114 bgs, Wessel Duval & Co, La Guaria
SEEDLAC—300 bgs, Gillespie Rogers Pyatt, Calcutta
700 bgs, Wm Zinsser & Co, Calcutta
100 bgs, Haeuser Shellac Co, Calcutta
250 bgs, Haeuser Shellac Co, Bangkok
250 bgs, Capitol Shellac Corp, Bangkok
SERPENTINA ROOT—50 bgs, S B Penick & Co, Colombo
SHARKLIVER OIL—20 dms, Collett Week Corp, Keelung
SHELLAC—350 bgs, Mac Lac Co, Calcutta
200 bgs, Gillespie Rogers Pyatt, Calcutta
100 bgs, Colony Import & Export Corp, Calcutta
100 bgs, C H Timm, Calcutta
933 bgs, Wm Zinsser & Co, Calcutta
50 bgs, P N Rowe, Calcutta
98 bgs, Schwab Bros, Calcutta
SILICA—2 cks, G B Carpenter, Havre
SOAP BARK—314 bls, Swiss Credit Bank, Valparaiso
20 bls, Max Van Pels, Valparaiso
SODIUM ALGINATE—100 dms, Stein Hall & Co, Glasgow
BICARBONATE—1,000 bgs, Chemical Manufacturing Co, Liverpool
BICHROMATE—101 dms, Ferro Metal & Chemical Corp, Durban
CHLORITE—100 dms, Lo Curto & Funk, Hamburg
160 dms, Rotterdam
CYANIDE—350 dms, American Cyanamid Co, Liverpool
1,018 dms, Chemical Manufacturing Co, Middlesbrough
250 dms, Chemical Manufacturing Co, Glasgow
50 dms, C Hardy, Havre
LAURYL SULFATE—61 dms, Aceto Chemical Co, Liverpool
METHYLARSONATE ACID—41 dms, Havre
SALTS—68 cks, Havre
SILICOFLUORIDE—334 bgs, Mercer Chemical Corp, Kobe
334 bgs, Baird Chemical Corp, Kobe
STARCH—800 bgs, Morningstar Nicol, Rotterdam
SULFUR—5 bgs, Texas Gulf Sulfur Co, Arica
10 cks, Chas L Huisking & Co, Liverpool
PRECIPITATED—10 cks, Mallinckrodt Chemical Works, Liverpool
TAPIOCA FLOUR—2,166 bgs, Manhattan Paste & Glue Co, Itajai
500 bgs, Stein Hall & Co, Itajai
800 bgs, American Metagraph Co, Santos
915 bgs, Bangkok
TAR ACID—100 dms, Glasgow
TARTARIC ACID—113 dms, Royal Bank of Canada, Rotterdam
100 bgs, Nylos Trading Co, Genoa
TEA OF MATTE—80 cs, Meer Corp, Paranagua
THEOBROMINE—5 bbls, Rotterdam
THYROID POWDER—20 dms, Chase Manhattan Bank, Liverpool
8 cs, Bernabo International Co, Buenos Aires
TITANIUM POWDER—3 dms, Mallory Sharon Titanium Corp, Liverpool
TETRACHLORIDE—1 cs, Arbor Chemical Co, Middlesbrough
TRAGACANTH GUM—11 bgs, Eastern Mohair & Trading Co, Hamburg
2 cs, Eastern Mohair & Trading Co, Hamburg
TRICHLOROETHYLENE—527 dms, Chemical Manfacturing Co, Liverpool
TUNG OIL—330 tons, Internatio Rotterdam, Buenos Aires
242 tons, Buenos Aires
TURMERIC—241 bgs, Otto Gerdau, Madras
114 bgs, M J Golombeck, Madras
57 bgs, L E Ransom & Co, Madras
131 bgs, Archibald & Kendell, Port Au Prince
56 bgs, Baltimore Spice Co, Kingston
ULTRAMARINE BLUE—100 dms, Fezandie & Sperrie, Rotterdam
UREA—2,100 bgs, Nylos Trading Co, Genoa
SYNTHETIC—4,000 bgs, Chemical Manufacturing Co, Middlesbrough
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92 cs, Thurston & Braidich, Antalaha
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44 cs, Chase Manhattan Bank, Antalaha
134 cs, J Manheimer, Antalaha
27 cs, Dammann & Co, Diego Suarez
47 cs, Wm Clark & Co, Antalaha
64 cs, First National Boston, Djibouti
65 cs, Marselle
37 cs, Diego Suarez
66 cs, Djibouti
VETIVER OIL—1 dm, Centflor Manufacturing Co, Port Au Prince
1 dm, Givaudan Corp, Port Au Prince
1 dm, Van Ameringen Haebler, Port Au Prince
5 dms, Trubek Lab, Port Au Prince
VITAMIN B1—126 dms, Nichimen Co, Kobe
5 cs, Nichimen Co, Kobe
C—20 dms, Nichimen Co, Kobe
WATTLE BARK—2,811 bls, Hammond & Carpenter, Durban
EXTRACT—226 bgs, River Plate Corp, Durban
564 bgs, Olson Sales Agency, Durban

—Continued on page 66

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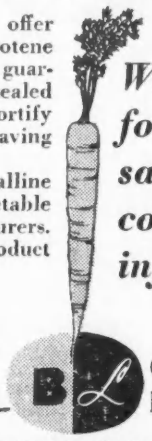

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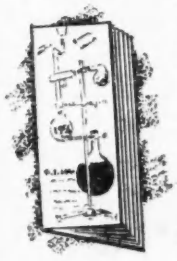

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Essential Oils, Aromatics

The citrus oils continued to lead this market in strength last week, dealers said, though there were no shifts in price in either orange, lemon, lime or grapefruit. This latter factor reflects the mood of the market, it was noted, i.e., some interest but not enough to propel the market in any given direction. Nutmeg oil appeared the only material to show any true and growing strength. Price hikes were reported in both East and West Indian qualities, a result dealers said, of fear that the market will go even higher.

Bois de rose, ocotea cymbarum and the other South American oils showed little variation in their position. The only heartening factor in the bois de rose market last week was that there was no actual price decline. However, the soft tone persists and grows. Dealers on spot reported that a good deal of the material reaching the country now is listed merely as South American bois de rose, and not, as previously defined by source country. If this acts as a leveler, it was noted, it might have a good effect upon the market as a whole. Dealers, however, questioned the fact that anything could help the market in the immediate future.

Bergamot was reportedly being shaded in price to some degree. However, the oils market as a whole appear to be holding the line relatively well.

Formosan citronella oil, though still unmoved in price on spot, was reported by dealers as worth watching, because of the softening tone in shipping prices. The wide spread between our price and that of the source area will invariably lead to a shift. Though the source price stiffened temporarily, the movement is obviously downward.

Both spearmint and peppermint oils continued to display some stability in the face of another approaching producing season, producers noted last week. Normally, at this time, there would be a tendency on the part of dealers to shade prices in order to reduce inventories of old material before the newcrop material appears on spot.

Two aromatic chemicals appear to be showing particular strength as the result of scarcity or high listings of source material. Anethol, replacement for anise oil, is showing firmness throughout and high sales because of a continued scarcity of anise at source, anillin, replacement for vanilla, grew firmer because of the climbing price of source material.

Price Trends

Advanced

Oil, bay, Puerto Rican, 25c. per lb.
Cananga, 30c. per lb.
Nutmeg, East Indian, 30c. per lb.
West Indian, 5c. per lb.

Reduced

Linalyl acetate, 50c. per lb.
Oil, caraway, 15c. per lb.
Eucalyptus, 70-80%, 3c. per lb.
80-90%, 3c. per lb.
Petitgrain, 5c. per lb.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	June 24, 1955
137.69	137.69	135.43	137.47

For Current Prices see Page 9

Essential Oils

Bois de rose — The problems of this market continued unabated last week, dealers reported. The soft tone that has marked spot listings for the past year and more remained a major ailment; the sidetracking of material through Peruvian outlets also was a major malfactor. Dealers on spot reported that more and more material is arriving listed only as South American bois de rose. In some quarters, the feeling is that this might be an answer to the problem of cheap Peruvian material and that a level of some sort might be reached which could be held and possibly, though certainly not in the immediate future, pointed upward and lead toward a resurgence of interest and selling.

Bergamot — Though spot prices as a whole have remained relatively firm for bergamot oil, dealers reported last week, some grades have been shaded downward slightly from the accepted spot listing. This does not appear to be a trend, however, and in some instances has been considered a reflection of the materials quality.

Caraway—Dealers reported last week a soft tone to the caraway oil market. The ease, they said, reflected an easing source market. The situation, though not necessarily a trend, appears to be relatively constant, it was noted. The new listing of $3.35 per pound is 15c. per pound less than previous quotes.

Citronella—Dealers continued to note last week that developments in Formosan citronella oil bear close watching in view of the continued wide spread in prices for October shipment and current spot quotations. Price for October shipment has recovered slightly from the recent low point but some dealers believe there is a strong possibility that prices will again weaken once covering against June shipment is completed.

Coriander—Prices for this oil continued unmoved on the market last week, dealers reported, as movement continued on a relatively steady level. It was noted that some Yugoslavian material has been appearing on spot for less than the prevailing quotes. To date, however, it was reported, this low-price oil has not materially effected the market.

Eucalyptus—Some eucalyptus oil was selling on spot at softened listings last week, dealers reported. In the 70-80 percent rectified quality, the listing was 62c. per pound or 3c. per pound less than previous listings. In the 80-90 percent quality the new listing of 72c. per pound was also 3c. less than the previous figure.

Lime—Distilled lime oil continued to show good firmness last week, dealers reported. The stiffness on spot was reportedly resultant of firm conditions in the Mexican market, where minimum export prices had been maintained for several months. Some principals believed that because of new production, exporters in Mexico would accept bids at below the market but the primary center failed to show any signs of weakening. In some quarters there were reports of some sizable orders having been placed in the primary center for one or two large beverage manufacturers.

Nutmegs—East and West Indian nutmeg oils worked higher last week, dealers said, though spot listings remained somewhat below replacement levels. Speculative activity absorbed the few offerings that were made with premiums being paid for late delivery positions. The new listing of $4.65 per pound for East Indian nutmeg and $4.90 per pound for West Indian are 30c. per pound and 5c. per pound advances, respectively. Dealers anticipate further movement in this market.

Petitgrain—A slight softness was noted in the petitgrain oil market last week, dealers reported. The new tone was reflected in a price decline of 5c. per pound. The new listing for South American material is $3.35 per pound.

Peppermint — Both this and spearmint oil continued to reflect some ease last week, dealers said, in the face of further rumors of greater acreage planting. Holders of both oils grew more anxious to reduce current stocks on reports to this effect from the trade. For the longer term period such a development should not prove too serious, however, since there have reportedly been occasions in recent

Imports Detained at N. Y.

Week Ended June 15

Black Pepper, 80 bags.
Cashew Nuts, 100 cases.
Chillies, 260 bags.
Cloves (3 lots), 600 bags.
Cocoa Beans, 6,400 bags.
Cumin Seed (2 lots), 414 bags.
Gum Karaya (10 lots), 887 bags.
Ginger (5 lots), 771 bags.
Kola Nuts (2 lots), 255 bags.
Mace, 56 cases.
Nutmegs (5 lots), 1,625 bags.
Paprika (4 lots), 400 bags.
Pimento, 33 bags.
Rosemary Leaves, 140 bales.
Sage Leaves, 70 bales.
Sesame Seed (3 lots), 1,484 bales.

Essential Oils

years when shortage existed especially with regard to spearmint material.

Aromatic Chemicals

Anethol — This aromatic chemical was reportedly moving in good volume last week, dealers said. The stern tone is attributed to the scarcity of anise oil on spot. According to dealers, the essential oil is virtually unobtainable in the market place.

Linalyl Acetate—This aromatic chemical and linalool showed continued ease in the market last week, producers said, reflecting the softness in the bois de rose market. New listing for linalyl acetate of $4 per pound is 50c. per pound less than the previous quote. In some instances, it was noted, some dealers were slow in reducing quotations since a portion of their holdings consisted of goods made from higher cost Brazilian bois de rose.

Vanillin — Producers attributed the slight rise in sales last week to the climbing vanilla bean price on spot and at source. This is the opportune time for such a development, they said, because this is the peak of the vanilla market. Further developments upward are expected with a related climb in sales. This should continue unless the price of source material should reverse itself.

Seeds and Spices

Pepper—The market showed some advancement last week, dealers reported. A demand for Sarawak, afloat and for shipment, led to the recovery movement. Reports of short covering in Singapore also caused prices to advance rapidly. Malabar had little part in the activity but hardened in sympathy with the stronger Sarawak market.

Some dealers argued that the weight of the Sarawak crop had been too heavily discounted and the recovery in the market was natural. They seemed to feel that a large enough part of this crop has been committed to eliminate pressure in selling the balance. They likewise pointed to the fact that India did not weaken in the face of the Sarawak competition and can be expected to harden once demand is diverted to that market.

Other interests reason that the imports here are running well in line with a year ago. On top of this, they say, imports will be particularly heavy during July and August. There is, therefore, little likelihood of any pinch for supplies and once the technical position has been adjusted there might be a recurrence of competitive selling on shipment positions. In most cases it is felt that the market is sound in the nearby positions but uncertain for anything later than July delivery.

Shipment levels for white pepper firmed and the off-take afloat committed a good part of the expected arrivals. The advance was moderate and orderly. Optimism is tempered by the act that new crop will be marketed in July-August but the short term trend appears to point upward.

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Commonwealth Engineering Company of Ohio, Dayton, Ohio, has developed a solution to the problem of removing water from heat-sensitive materials. Commonwealth Engineering has been granted a patent (2,735,779) for solving the problem by removing water in the form of ice crystals.

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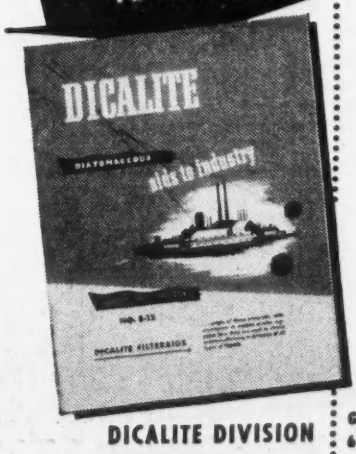

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Coatings Materials

Coatings materials sales were slow last week, as summer weather approached and many paint plants began cutting inventories in preparation for July and August shutdowns. As announced last week, effective July 1, the leading plasticizer makers will increase price-quantity differentials ½c. per pound down the line. Drum differentials will be increased to 2½c. per pound over tankcars, while less than carlot drum quantities will sell at 3½c. per pound over tankcar prices. Aside from this announcement, no price changes have been reported in coatings materials.

Figures published recently by the Department of the Interior indicate that carbon black production rose 22 percent in 1955, reaching a total of 1.7 billion pounds. Sales increased 22 percent, to 1.8 billion pounds, including a spectacular 78 percent gain in sales to the paint industry.

Settlement has not yet been reached in the strike that has kept a zinc oxide plant shut down during the last month. Accordingly, spot sales of competitive firms were running above normal. Total zinc oxide sales, though, have declined, due to lowered automobile production and the seasonal slowdown in the paint industry.

Buying interest in gum remained largely confined to the spot market. New York prices continued to hold at previous listings, reflecting firm source prices. Shellac business held up well in spite of lower paint industry sales. Other outlets, such as floor waxes were reported to be taking up some of the slack.

Word has not been received from synthetic resin manufacturers as to whether the 1c. per pound price hike in phenol will have any effect on phenolic resin quotations. Prices on other synthetic resins were steady and unchanged.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	June 24, 1955
100.14	100.14	100.14	97.18

For Current Prices see Page 9

Prime Pigments

Aluminum Paste, Powder—Net shipments of atomized and grained aluminum powder were 895,000 pounds in April 1956 as compared with 721,000 pounds during March, according to a report of the Department of Commerce. Flaked powder shipments in April were 601,000 pounds, up 129,000 pounds from the previous month. Shipments of aluminum paste were 1,650,000 pounds, as compared with 1,319,000 pounds during March. Shipments in April, 1955, were as follows:—Atomized and grained powder, 1,354,000 pounds; flaked powder, 344,000 pounds; and paste, 1,096,000 pounds.

Carbon Black—Production of carbon black rose 22 percent in 1955, reaching a total of 1.7 billion pounds, according to a report issued by the bureau of mines, Department of the Interior. Sales increased by 22 percent, totaling 1.8 billion pounds. Sales to paint makers showed the highest increase in 1955, a sharp gain of 78 percent over 1954 sales. Carbon black sales to rubber companies increased 26 percent over the previous year.

Lead Pigments—Sales to the paint industry were slow last week, as summer weather approached and many plants began cutting inventories for July and August shutdowns. Other industries were taking material in moderate amounts. Prices were held steady at levels established a couple of months ago. The major producers appeared to have ample supplies of material on hand.

Zinc Pigments—Settlement of a strike at the plant of a major manufacturer of oxides had not been reached yet last week. Accordingly, spot sales of competitive firms were running above normal. Total sales in the industry, though, have declined somewhat, due to low production of automobiles and a seasonal decline in the paint industry. Prices were steady, reflecting stability in the zinc market. Supplies of oxides were plentiful.

Lacquer Materials

As announced last week the major plasticizer producers will revise price-quantity differentials on all materials effective July 1. Drum differentials will be increased to 2½c. over tankcars, while less than carlot drum quantities will sell at 3½c. per pound over tankcar prices. The changes in both classifications amount to an increase of ½c. per pound. Tankcar prices will be unchanged.

Plasticizer production has continued at a high level, although the protracted slowdown in automobile manufacture is now affecting the sales rate in this industry. With the approach of Summer shutdowns, the paint industry also was taking less material. The total picture, then, appears to be one of plentiful supply, keen competition and a moderate rate of demand.

Synthetic Resins

Alkyds—Prices were last changed in early May when listings were advanced ½c. per pound to offset increases in production costs. In last week's market business was lively, with prices holding steady. Quotations range 19½-21c. per pound for quantities of 1-9 drums. Tankcar prices are 16½-18c. per pound. Supplies are plentiful.

Melamines—A good quantity of material moved into consumers' hands last week at an even pace. Prices remained steady and unchanged. Producers' inventories were reported in good ratio with market needs.

Natural Resins

Gum—Buying interest in the spot market was holding up at a moderate level, but interest in futures was sluggish. New York quotations continued steady, reflecting firm source prices. The supply picture was unchanged—that is, ample for most materials, with the following gums out of stock:—Manila DK and WS, and Singapore No. 3. Orders for Singapore No. 2 are being filled promptly, although the material has been less plentiful than usual during the past few weeks. The slump in the paint industry was not affecting this market strongly, dealers reported.

Shellac—Business volume in shellac was reported as holding up well under present business conditions. Things were slow in the paint industry, but shellac has large volume outlets in other industries, such as floor waxes, to mention only one. However, trading has slowed a bit, and this has resulted in improving the availability of some grades which had heretofore been a bit snug. Prices recently established were holding firm.

Miscellaneous

Casein—The spot price for Argentine casein was unchanged at 21c. per pound. Futures were 20½c. per pound, with delivery in July. Dealers' supplies were reported to be in good balance with a fair rate of demand. Buying interest has been gaining gradually, dealers report, but casein inventories in Argentina are still relatively heavy. European produce is no factor in the market here this season, and domestic production has been limited to specialty needs. New Zealand casein, a premium quality material, is selling at 25c. per pound. The volume of business for New Zealand has been light but fairly steady throughout the year.

Dried Blood, Soluble—Quotations were unchanged at 13c-15c. per pound for carlots, and 15½c-19½c. per pound for less carlots. Trading was seasonally good, with supplies in good balance with consuming interest.

Naval Stores

Production of gum naval stores in May was 15,110 barrels of turpentine and 41,760 drums of rosin, according to a report issued by the Department of Agriculture. Due to cool weather, the flow of gum has been retarded, with still output during the first two months of the crop year running 13 percent less than last season.

Production of steam distilled turpentine was down 2,500 barrels from last month's

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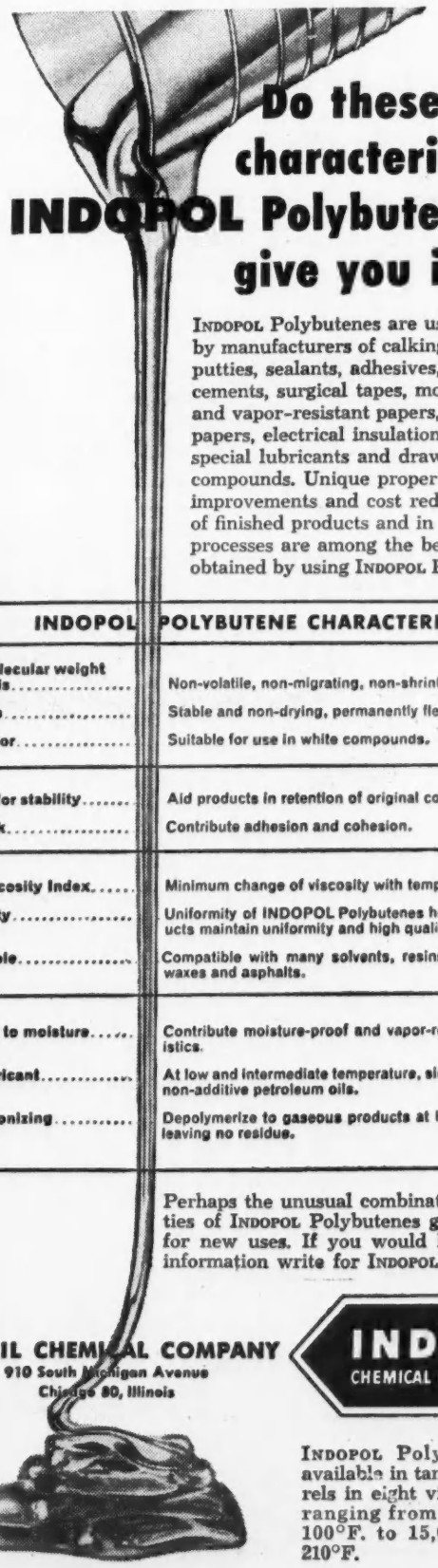

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High tack	Contribute adhesion and cohesion.
High Viscosity Index	Minimum change of viscosity with temperature.
Uniformity	Uniformity of INDOPOL Polybutenes helps finished products maintain uniformity and high quality.
Compatible	Compatible with many solvents, resins, gums, rubbers, waxes and asphalts.
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Coatings Materials

output, while sulfate output changed only slightly. No sulfate turpentine was burned during May. Steam distilled rosin output, at 117,790 drums, was a bit less than for April. A small seasonal increase in gum turpentine stocks was approximately offset by a decline in wood stocks, while gum and wood rosin stocks were slightly higher than a month ago.

Rosin, Gum

(USDA, per 100 lbs.)

	Fri. June 15	Mon. June 18	Tues. June 19	Wed. June 20	Thur. June 21
Drums—					
H	...	...	$7.93	...	...
M	...	$7.93	...	...	...
N	$7.94	7.93	...	$7.92	$7.94‡
WG	...	8.00	8.01	7.98	7.94
WW	8.20	8.22‡	8.14	8.11	8.10
Bags—					
K	...	...	7.80	...	...
M	...	...	7.90	...	...
N	...	7.81	7.78	...	7.77
WG	7.93	...	...	...	7.92
WW	...	...	8.15	...	8.02

Tankcars (for week ended June 15)—K or better, $7.56; M or better, $7.35‡

Sales, USDA

240* 950* 623* 511* 320*

New York
(per 100 lbs., c.l., Friday)

B through N, $9.40; WG, $9.55; WW, $9.65

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

	Fri. June 15	Mon. June 18	Tues. June 19	Wed. June 20	Thur. June 21
Price	.545	.545	.537‡	...	.541‡
Sales	14,000¶	6,000¶	23,000¶	...	8,000¶

New York, Friday, per gal. 7 lbs., tankcars, 63½c., l.c.l. 75c.

*Drums equivalent. ¶Gallons. ‡Average price.

Drug 'Underground'

—Continued from page 7

law tends to force the illegal distributors 'underground 'and create a very difficult enforcement problem," Mr. Stokes continued. "In fact the tremendous enforcement problem would probably outweigh any advantages that might accrue from this type of control."

"The bill also places an unwarranted and unrealistic burden upon legal distributors to ascertain that each of their customers conform with local laws in their particular community which entitle them to receive such merchandise," Mr. Stokes went on.

"The provisions of the proposed legislation making all shipments of barbiturates and amphetamines subject to federal jurisdiction and requiring an informative listing of manufacturers of barbiturates and amphetamines would, we believe, in themselves provide sufficient controls if added to those now possessed by the federal and state government," Mr. Stokes concluded.

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Liabilities to Assets

—Continued from page 7

unsaturated fatty acids are available to industry a number of new or synthetic products will be noted. As various compounds are developed at the laboratory, the service will release information to industrial chemists giving the physical and chemical characteristics of the material and a description of how the material was isolated.

Other efforts to develop new chemical products include work on fish meal and oil at the Service laboratory at Ketchikan, Alaska; studies on the structure and analysis of highly unsaturated and saturated acids, the problem of odor in fish oils and the chemistry of inclusion-type complexes in fish oils, at the University of Minnesota; oxidation of fish oils at the University of California; and the possibility of utilization of fish oil derivatives in ore flotation, at the University of Minnesota.

The studies on new uses of fish oils through improvements in their quality include a study of the chemical and physical characteristics of the oils, North Carolina State College; chromatographic analysis of the constituents of marine oils, Texas A & M Research Foundation; study of the nonglyceride fractions of fish oils, University of Delaware; use of fish oils in high energy poultry rations, University of Connecticut; preparation of new resins from fish oils, Arthur D. Little Company, Cambridge, Mass.; fish oil insecticides and fungicides for the citrus industry, Florida Southern Colloge; fish oils in the lubrication of leather, University of Cincinnati.

There is also a study on the use of fish oil in swine diets at Oregon State College.

SAACI Golf Prize to Nippes

Richard E. Nippes of Columbia-Southern Chemical Corporation and John F. O'Brien of McKesson & Robbins, Inc., each scored a seventy-seven at the golf outing held last week by the Salesmen's Association of the American Chemical Industry at Bonnie Briar Country Club, New Rochelle, N. Y. First low gross prize, however, went to Mr. Nippes because of his higher handicap.

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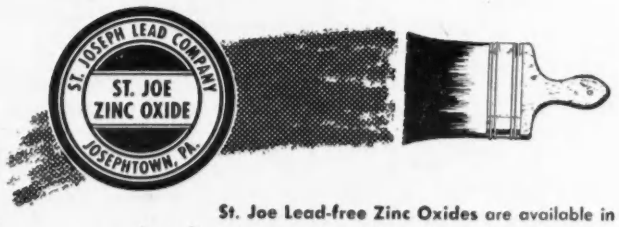

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Dyes Output, Sales on the Up Side in 1955

—*Continued from page 5*

tial increases in production were reported for many low- and medium-priced dyes.

Among the low-priced dyes, output of sulfur black in 1955 was 16.3 million pounds, or 42 percent more than the 11.5 million pounds produced in 1954.

Output of synthetic indigo was 12.5 percent greater in 1955 than in 1954; direct black EW (C. I. dye 581), 10 percent greater; and anthraquinone vat jade green (C. I. dye 1101), 3 percent greater.

Among the newer dyes, the direct white dyes increased to 2.5 million pounds in 1955 from 1.4 million pounds in 1954, an increase of 75 percent.

Increased output in 1955, compared with 1954, was reported also for anthraquinone vat olive R (C.I. 1150), an increase of 161 percent; chrome blue black R (C.I. 202), 94 percent; anthraquinone vat violet 2R (C.I. 1104), 84 percent; anthraquinone vat brown R (C.I. 1151), 79 percent; anthraquinone vat green B and black B (C.I. 1102), 69 percent, and chrome black T (C.I. 203), 57 percent.

On the other hand, the output of indanthrene khaki 2G (Pr. 122) was 38 percent lower, and that of auramine (C.I. 655) was 23 percent lower, in 1955 than in 1954.

Four chemical classes of dyes accounted for 84 percent of the total quantity of all dyes produced in 1955; azo dyes accounted for 36 percent; anthraquinone vat dyes, for 24 percent; sulfur or sulfide dyes, for 15 percent; and ingigoid and thionindigoid dyes, for 9 percent.

The output of each of the four classes was greater in 1955 than in 1954.

The production of vat dyes increased 27 percent; azo dyes, 14 percent; sulfur dyes, 13 percent; and indigoid and thioindigoid dyes, 12 percent.

For dyes grouped by class of application, two classes accounted for more than half of the total output of all dyes in 1954. They are vat dyes, which accounted for 33 percent, and direct dyes, which accounted for 19 percent.

Output of both classes was smaller in 1955 than in 1954. The production of direct dyes decreased 15 percent, and vat dyes, 7 percent.

Two chemical classes of ungrouped dyes accounted for 60 percent of the total output of these dyes in 1955. They were azo dyes, which accounted for 40 percent and anthraquinone vat dyes, which accounted for 20 percent.

The azo dye output was slightly lower in 1955 than in 1954, but the output of ungrouped anthraquinone vat dyes was 36 percent higher than in 1954.

For ungrouped dyes arranged by class of application, three classes of dyes accounted for three-fourths of the total output of these dyes. Direct dyes accounted for 35 percent; vat dyes, for 23 percent; and acetate rayon dyes, for 17 percent.

The output of all three classes was greater in 1955 than in 1954.

The output of ungrouped direct dyes increased 45 percent; vat dyes, 42 percent, and acetate rayon dyes, 14 percent.

The production of azoic dyes and their components totaled 9.0 million pounds in 1955, or 13 percent less than the 10.3 million pounds produced in 1954.

In 1955, sales of these products were 8.0 million pounds, valued at $14.2 million, compared with 8.6 million pounds, valued at $15.4 million, in 1954—a decrease of 7 percent in quantity and 8 percent in value.

With the exception of naphthol AS and its derivatives, the production of which increased 3 percent in 1955 compared with 1954, the output of the remaining three groups declined in 1955 compared with 1954.

The output of rapidogens declined slightly, while the fast color bases declined 32 percent, and the fast color salts declined 9 percent.

Surface-Active Agents

—*Continued from page 7*

surface-active agents in 1955 totaled 361 million pounds, valued at $93 million, compared with sales of 336 million pounds, valued at $76 million, in 1954.

In 1955, production of anionic surface-active agents (sulfated and sulfonated cyclic and acyclic compounds and acyclic salts of fatty acids) amounted to 906 million pounds, or about 79 percent of the total output of surface-active agents.

The output of cyclic plasticizers in 1955 totaled 296 million pounds, compared with 228 million pounds in 1954. Sales in 1955 were 252 million pounds, valued at $72 million, compared with 186 million pounds, valued at $57 million, in 1954. The cyclic plasticizers consist principally of the esters of phosphoric acid and phthalic anhydride.

Production of acyclic plasticizers in 1955 was 100 million pounds, an increase of 37.0 percent over the 73 million pounds reported for 1954. Sales in 1955 amounted to 85 million pounds, valued at $32 million, compared with 62 million pounds, valued at $25 million, in 1954. This group includes data for the esters of adipic, lauric, oleic, phosphoric, sebacic, stearic and other acids.

Rauwolfia's Action

—*Continued from page 7*

pine," he added, "does not tend to develop into sleep regularly as does the sedation following barbiturates.

"Thus we cannot logically classify reserpine as a hypnotic. It might more properly be stated that the substance permits but does not produce the sleeping state."

Reserpine actually appears to be a stimulant, the Ciba biochemist contended—a stimulant which prods certain areas of the brain to exert a slowing effect on the midbrain nerve centers.

This produces a feeling of peace and promotes relaxation. On the other hand, he observed, alcohol is a depressant which often gives rise to signs of stimulation.

The rauwolfia drugs also lower blood pressure, Dr. Plummer continued, linking this action with a decrease in the activity of the sympathetic nervous system.

He said this inhibitory effect appears to begin at or near the center of the sympathetic nervous system—the hypothalamus in the brain.

Oils, Fats and Waxes

Trading in edible oils was mixed last week, as soybean oil scored fractional gains, and cottonseed, peanut and linseed oils tailed off. Linseed began the week steady, but could not withstand firmer meal and lack of spot interest. While soybean oil was higher, stiff buyer resistance sent prices for meal lower. With crushing operations about over, cottonseed meal was lifted to $55 per ton. Refined fish oils were in slow demand, and held unchanged during the week, although firm bids for large lots could have shaded prices.

Drying oils were firmer on the whole, although oiticica was slightly easier. Advanced in price were mustard, rapeseed and tung oil. Stocks of rapeseed were practically nonexistent.

Fancy bleachable tallow reached its lowest price levels in over three years on the domestic market. The same held true for export, as guaranteed fancy went down at midweek to a three-year low.

Greases were also off fractionally, as buying interest for both tallow and greases continued spotty, with consumers operating in a hand to mouth manner.

Candelilla wax continued extremely strong, with stocks scarce and closely held. Sellers were content to fill out old contracts, and did not look for new business. Refined yellow beeswax was weaker, and slabs declined to 69 cents.

Carnauba yellows were very strong, in opposition to other grades, and rose sharply during the week, while the rest of the market was easy. There was little or no domestic montan available, and prices were nominal.

Price Trends

Advanced

Castor beans, $5 per ton.
Cocoa butter, ½c. per lb.
Cottonseed meal, $2.50 per ton.
Oil, menhaden, ½c. per lb.
Mustard, ½c. per lb.
Rapeseed, 1c. per lb.
Soybean, crude, ½c. per lb.
refined, 0.33c. per lb.
Tung, ½c. per lb.
Wax, carnauba, yellow, No. 1 Ceara, 8c. per lb.
Parnahyba, 7c. per lb.
Montan, dom., 1c. per lb.

Reduced

Copra, $2.50 per ton.
Greases, ⅛c. to ⅜c. per lb.
Lard, 0.175c. per lb.
Oil, coconut, ⅜c. per lb.
Corn, crude, ½c. per lb.
Cottonseed, ⅜c. per lb.
Linseed, 0.4c. per lb.
Oiticica, ¼c. per lb.
Peanut, ⅝c. per lb.
Soybean meal, $3 per ton.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	June 24, 1955
121.40	116.83	118.02	103.42

For Current Prices see Page 9

Vegetable Oils

Coconut—The market was weaker, with lower copra and spotty demand. Pacific coast price was off fractionally, and oil was quoted at 10¾c. per pound, tankcars, f.o.b.; New York, 12¼c. per pound, tankcars, same basis for prompt shipment.

Corn—Crude oil continued its decline, and was off fractionally, to 14¼c. per pound, tankcars, f.o.b. works. Refined salad was quoted at 18.09c. per pound, tankcars, New York.

Cottonseed Oil Futures

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended Friday, June 22, follow:—

	Sales	Cents per pound—High	Low	Close
July	422	16.62	15.98	16.48S
Sept.	414	16.47	15.88	16.19S
Oct.	63	15.80	15.20	15.67
Dec.	115	15.55	15.20	15.35@15.37
Mar.	33	15.40	15.15	15.32@15.36
May	23	15.40	15.15	15.29@15.37
July, 1957	10	15.30	15.17	15.25@15.29

Total sales, 1,180 contracts.

Cottonseed—Trading in futures last week resulted in further sharp declines, although the market regained some strength late in the week and earlier losses were partially recovered. Selling continued heavy.

Buying interest for prompt needs continued quiet, and dull inquiry for export was another key factor in lower spot quotations.

Crude cottonseed oil was offered nominally at 14½c. per pound, f.o.b. mills, southeast; valley, 14½c.; and Texas, 14c. sales.

Refined salad held unchanged in quiet trading and was offered at 17¾c. per pound, tankcars, New York, and 19¾c. per pound, drums, same basis, subject to shading in firm bids for large lots.

Memphis—Cottonseed oil was quoted at 14½c. per pound, f.o.b. mills; soybean oil, 13⅝c. per pound, same basis, in tankcars. Cottonseed meal quoted at $55 per ton, sacked, and hulls $5 per ton in bulk, $9 per ton, sacked. Demand continued fair.

Linseed—Further declines in flaxseed sent linseed oil down further last week. Oil was quoted at 13.3c. per pound, bulk, tankcars, f.o.b. Minneapolis, June-September, and 13.8c. per pound, ex warehouse, same basis.

Bookings of new business continued light and spotty. Withdrawals against current contracts remained in good volume. Tankcar price at New York was 15.3c. per pound, prompt shipment; tankwagons were quoted at 15.7c. to 15.8c.; drum carlots at 17.3c., and less carlots, 18.3c. to 18.8c., same basis.

Flaxseed—New crop developments were closely watched. To-arrive prices were lower.

Minneapolis.—Crushers reduced bids on spot flaxseed 8c. a bushel to $3.37, basis Minneapolis. To-arrive bids for new crop flaxseed were down 3c. to 5c. while old crop declined 8c. August arrivals were at $3.37, September, $3.35.

Trade watched crop developments closely as most of the area experienced an extended period of record-breaking high temperatures. There were no reports of serious effects, and good rains brought relief.

Flax stands were described as good over the early-seeded areas, ranging from 3 to 8 inches in height in South Dakota.

Western Minnesota reports indicated that flax there was in the bloom stage. Trading in cash flax was extremely dull, only 7 cars being offered in the spot market. To-arrive bookings amounted to 5 cars and 46,700 bushels, mostly of new-crop supplies. Flax receipts for all accounts totaled 140 cars, compared with 386 a year ago. Shipments totaled 40 cars, against 37 last year.

Receipts and shipments of flaxseed, in bushels, were as follows:

	Receipts 1955-56	Shipments 1955-56	Shipments 1954-55
Past week	235,500	70,000	64,750
Since Sept. 1	24,642,750	5,852,000	5,161,000

Peanut—Market was soft, and slid off fractionally to 14⅜c. per pound, tanks, f.o.b. mills for crude oil. Refined listed at 17½c. per pound, New York basis, in tankcars.

Soybean — Market tended to regain partly the losses of the previous week. Crude oil gained fractionally, and was offered at 13⅜c. per pound, tankcars, f.o.b. Decatur, June.

July-August oil was offered at 13¼c., same basis. Refined salad was higher, at 16.59c. per pound, tankcars, f.o.b. New York, and 18.59c. per pound, drums, same basis.

Soybean Oil Futures

Sales and prices of crude soybean oil futures in tankcars (60,000 pounds) on the New York Produce Exchange for the week ended Friday, June 22, follow:—

	Sales	Cents per pound—High	Low	Close
July	11	13.58	13.50	13.40@13.50
Sept.	4	13.15	12.42	13.10
Oct.	4	12.50	12.42	12.42S
Dec.	2	12.13	11.95	12.11@12.13

Total sales, 21 contracts.

Tung—Tempo of trade increased moderately, and while tankcars were unchanged, interest in drum quantity shipments sent prices up fractionally. Tung oil was priced higher at 26¼c. per pound, drums, carlots, New York basis, and 27c. per pound, smaller lots, same basis. Tankcars remained unchanged, at 24¾c. per pound, New York.

Fats and Greases

Greases—Trading was light, and prices declined fractionally. Choice white was quoted at 6⅞c. to 7⅛c. per pound, tankcars, delivered, and yellow, at 6⅜c. per pound, same basis, with scattered sales reported.

Lard—The market continued to fluctuate narrowly, and was unsteady. Cash

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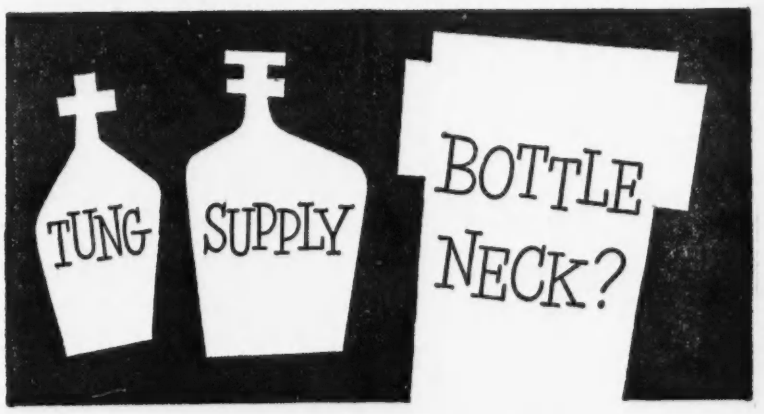

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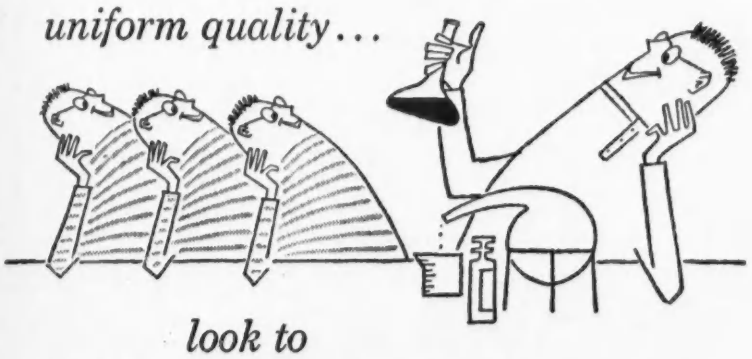

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Oils, Fats and Waxes

was priced at 11.175c. per pound, drums f.o.b. Chicago, on Friday.

Tallow—Lack of buying interest brought fancy bleachable prices to three-year lows during the week, with some indications of further weakening, as consumers tended to extend spot purchasing into August.

Fancy declined to 6⅞c. per pound; extra, 6⅝c.; special, 6½c., and No. 1, 6⅜c., tankcars, delivered. Guaranteed fancy was offered at 8½c. per pound, drums, f.a.s., and could be shaded.

Miscellaneous

Castor Beans—Sales were reportedly made at up to $165 per ton, f.o.b. Brazilian ports, based on the latest minimum regulated price for export of $145 per ton, same basis.

Imports of castor beans and castor oil at New York and Philadelphia last week were as follows:—

	Pounds—Beans	Pounds—Oil
Last week	557,550	740,800
Previous week	409,050	1,078,000
Corresponding week, 1955	691,050	410,000
Total this year	24,051,850	33,575,800
Corresponding period, 1955	50,300,315	41,948,000

Copra—Slow demand characterized the market. Prompt shipment was lower at $147.50 per ton, c.i.f. Pacific coast.

Cake and Meal

Soybean Meal—Buyer resistance to high prices finally paid off in the form of a sharp drop in quotations last week. Another factor in the lower prices was a firmer tone in oil, which showed signs of regaining losses incurred during the previous week.

Forty-four percent unrestricted meal was offered at $61.50 per ton, f.o.b. Decatur, for June through September shipment.

Waxes

Bees—Trading was dull, with crude African unchanged and nominal at 67c. per pound, bags, spot. Easiness forced a further decline in refined yellow slabs, which were off to 69c. to 71c. per pound, spot, as to quantity.

Carnauba—The market last week was unsettled, with yellows scoring sharp gains, and other grades weak. Yellow No. 1 jumped to $1.38 to $1.40 per pound, and Parnahyba was up to $1.40 to $1.45 per pound, spot, as to quantity.

North Country Nos. 2 and 3, and Parnahyba were weak, and firm bids for large lots could have shaded prices.

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6—Day "Cincinnatus" double arm 600, 200 and 100 gallons.
3—Abbe Aluminum Powder 12, 20 and 40 cu. ft.
9—Steel jacketed Powder 50, 225 and 350 cu. ft.
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3—Eimco 18"x24", 18"x12", 316 S/S Rotary Vacuum.
1—Feinc 5'x3' Monel Rotary Vacuum String.
2—#3 Sweetland S/S Filters, 12-25" dia. leaves 75 sq. ft.
4—#3, #5, #7, #12 Sweetland Filters.
4—Shriver 36"x36", 30"x30", c.i. Filter Presses, P&F, washing.
2—Shriver 24"x24" P&F rubber covered, washing.

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2—Ball & Jewell #2, #1½ Rotary Cutters.
7—Nash Vacuum Pumps #H7, #H6, #L5, #4, #2.
2—Beach-Russ Model "D" Vacuum Pumps 50 cfm.
3—Stokes #412G, #412B, #212B Vacuum Pumps, motor driven.
7—Durco S/S Centrifugal Pumps 1" to 3".

Partial List of Values — Send for News Flash!

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BRILL EQUIPMENT COMPANY
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$1,000,000
MODERN ANTIBIOTIC PLANT
LAWRENCEBURG, IND.
(25 miles from Cincinnati, Ohio)

This Plant manufactured Penicillin, Streptomycin and B-12; has complete facilities for Filtration, Fermentation, Extraction, Crystallization, Freeze Drying Equipment, Filling and Packaging Equipment. Main individual items listed below. Details on request.

REACTORS, KETTLES, TANKS & CONDENSERS

Stainless Steel

8—1000, 550, 250, 200, 100 and 50 gal. jacketed, agitated Reactors.
2—500 and 150 gal. Closed, jacketed Kettles.
4—Stacy 9'x35'6" Vertical, Steel Fermenters 17,000 gal., with Stainless Steel coils and 150 HP Turbo Agitators.
4—Stacy 3000 and 2000 gal. Vertical, Closed Tanks with Stainless Steel coils and side agitators.
3—Graver 500 gal. Vertical, Closed Tanks, side jackets.
6—500 and 550 gal. Closed, Vertical Tanks.
20—40 gal. Portable Tanks on trucks.
6—All Stainless Tubular Condensers 30, 60, 85, 155, 195, 200 and and 570 sq. ft.

Glass Lined

9—Pfaudler 750, 350, 250, 200, 100 and 50 gal. jacketed, agitated Reactors.
2—Pfaudler 2500 gal. Vertical, Closed Tanks.
6—Pfaudler 1400, 1000, 400, 350 and 200 gal. Vertical, Closed Tanks.

Steel

30—Graver 40"x37' high, Vertical Tanks, side jackets, 2400 gal.
21—Graver 40"x7' Vertical Tanks, side jackets, 500 gal.
2—Stacy 7'6"x10'9" high, Closed, Vertical Tanks 2700 gal.
5—Vertical, Closed Tanks 10,000 to 20,000 gal., 12'x12', 15'x16', 12'x18' cone bottom.

CENTRIFUGES & FILTERS

11—Podbielniak, Model 7100 and 6110 Stainless Steel Centrifugal Extractors, 10 HP XP motors and accessories.
1—Bird 40" Suspended Centrifugal, bottom discharge, steel basket, 30 7½ HP motor.
2—Bird-Young 4'x2' Rotary Vacuum Filters.
2—Shriver 24"x24" rubber covered Filter Presses, 4 eye, P&F, 14 and 21 chambers.
1—Republic 15"x16" Stainless Steel Filter Press, P&F, 20 chambers.

DRYERS & OVENS

10—Stokes, Devine and National Research 8 and 10 shelf, Vacuum Shelf Dryers.
6—American Sterilizer and Precision Co. Sterilizers.

COMPRESSORS & PUMPS

14—Ingersoll Rand Air Compressors 1500, 1300, 1000, 750, 628, 240 and 215 CFM with motors, receivers, air filters and after-coolers.
10—York Ammonia Compressors, Model D-8, 10"x7½", 8"x6', 6"x6", 5"x5" and 4"x4" with motors and accessories.
15—Kinney Vacuum Pumps 100 and 200 CFM.
2—Nash Vacuum Pumps 300 CFM.
77—Ingersoll Rand, Peerless, Dayton-Dowd and Worthington Stainless Bronze and Steel Centrifugal Pumps 1/3 to 20 HP.

MISCELLANEOUS

5—Kathabar, Trane, Air Conditioning and Dehumidifying Units.
35—Lightnin and Turbo Agitators from 1/4 HP to 7½ HP.
4—Lightnin and Turbo Agitators, 125 HP.
2—Bantam Mikro Pulverizers, Stainless Steel.
150—Recording and Control Instruments, Foxboro, Brown, Beckmann, Taylor and Manning.
50—Fischer Porter Rotameters.

Vial Filling, Washing, Sterilizing and Package Equipment, including Stainless Steel Trucks, Trays, Conveyors, Labelers, Cartoners and Printers.

For Inspection or Further Information Contact:

Mr. Ted Goldan, Box 190, Lawrenceburg, Ind., Telephone 714.

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1—Stainless Steel Spray Dryer, 19' dia. x 20' high, with Sirocco Blowers, controls, etc. Installed in Camden, N. J.

1—Buflovac Double Effect Evaporator, size 6.5, model 629-D, Stainless Steel Construction; 196 sq. ft. tubes in 1st eff., 392 sq. ft. in 2nd eff. Installed in New York State.

LIQUIDATING
AT CLOSED PLANTS

IN AMARILLO, TEXAS POWER PLANT

1—6500 KW Turbo Generator 4150 V.
1—Westinghouse Surface Condenser, 12,000 sq. ft., with Ing-Rand Circulating Pump, 10,000 GPM.
1—Ing Rand Boiler Feed Pump, 225 GPM; with 75 HP motor.
1—P & H 35 ton Overhead Crane.

AT CAMDEN, N. J.

4—Devine Vacuum Shelf Dryers, size #27, 17 shelves 59" x 78", double door.
1—Devine Vacuum Shelf Dryer, size #23, 13 shelves 59" x 78", double door.
4—Pebble Mills, Porox lined: 37" x 42"; 37" x 48"; 46" x 42".
1—Jeffrey 36 x 42 Hammer Mill.

AT EASTON, PA.

2—14,000 gal. Horiz.—Welded Steel Tanks.
3—7900 gal. Horiz.—Welded Steel Tanks.
12—9000 gal. Vert.—Welded Steel Tanks.
1—York Ammonia Compressor, size 12½ x 14½; steam driven.
12—Wood Tanks—4500 to 5000 gal.

AT CARIBOU, ME.

10—42,000 gal. Vertical Steel Tanks, 19' dia. x 20' high.
1—5000 gal. Pressure or Vacuum Cooker with agitator, 6'6" D x 20' L.
3—Vertical Steel Pressure Cookers, 2500 gal.
1—Continuous Mash or Starch Cooker, 8" dia. pipe, 8 passes, 40' long.
1—All steel Heat Exchanger, 9 sections, total 3950 sq. ft., 2" tubes.

AT BALTIMORE, MD.

4—Copper Rectifying Columns, 24" and 36" dia.
1—La Bour Stainless Steel Centrifugal Pump, 6" x 4" with 30 HP TEFC motor.

WELDED STEEL TANKS IMMEDIATE SHIPMENT

at Cincinnati, Ohio

30—7780 gal. Vertical, 11' D.
9—4725 gal. Horizontal, 9'2" D.

AT GRAND RAPIDS, MICH.

3—23,000 gal. Horizontal, 11' D.
2—14,000 gal. Horizontal, 8'2" D.

AT READING, PA.

7—4650 gal. Horizontal, 9'6" D.

AT EASTON, PA.

8—9000 gal. Vertical, 11' dia.
2—14,000 gal. Horiontal, 10'6" dia.

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25 cu. ft. SS Cone Blender.
19 cu. ft. Patterson Blender.
C27 Sharples Super-D-Hydrator SS.
C20 Sharples Super-D-Hydrator SS.
PN14 Sharples Super-D-Canter SS.
36"x50" Bird Cont. Centrifuge.
40" Bird Centrifuge, suspended.
40" SS Bird Sus. Perf. Centrifuge.
48" Bird SS Centrifuge, perforated.
8 Shelf Vacuum Dryers.
Pittsburgh Lectrodryer, Type BAC.
310-12 L. B. Roto Louvre Dryer, SS.
625 CFM Worth. Compressor, 100 PSI.
York Ammonia Compressors, 5-25 ton.
5'x10 Hearth Herreshoff Furnace.
24" Filter Press, aluminum P&F.
24" Filter Press, rubber covered (2).
Jeffrey Hammermills, 15x8 to 24x20.
Katho Bar Units (2).
140 cu. ft. Paddle Mixer. NEW.
2TH Micro Pulverizer.
ISW Micro Pulverizer.
412G Stokes Microvac. NEW.
36" Komarek Greaves Briquette Press.
100 gal. Pfaudler Reactor.
200 gal. SS Reactor.
350 gal. Pfaudler Reactor.
750 gal. Pfaudler Reactor.
2000 gal. Reactor, 200 PSI
3000 gal. SS Reactor.
48" SWECO 3-Deck Sifter. NEW.
28A Robinson Gyro Sifter, SS.
310-12 L. B. Roto Louvre Dryer.
502-20 L. B. Roto Louvre Dryer.
212A Stokes Vacuum Pump.
1300 gal. Glass-Lined Tank.
2500 gal. glass-lined Storage Tank.

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STEIN EQUIP'T
OFFERS

DRYERS AND KILNS

Devine #12 & #23 Vac. Shelf Dryers.
Stokes 2'x6' Rotary Vac. Dryer.
1—Allbr. Nell 4x9 Atmos Drum Dryers.
1—Buffalo Vac. Drum Dryer, 24"x20"

CENTRIFUGALS AND CENTRIFUGES

4—Tolhurst 40" Suspended Type.
8—Centrifugals, 12", 20", 26", 30", 40" & 48" Steel, Copper, Stainless & Rubber.
6—Sharples No. 5A Stainless & #6.
2—De Laval Multi Clarifiers 300 & 301.

FILTERS

#2 Sweetland Filter 12 Stainless covered leaves
1—Vallez Filter #49 with 41 Stainless covered 44½" dia. leaves.
Gen. Amer. 2'x1' Rotary Vac. Filter.
Sperry and Shriver 6" to 36" iron & wood.
Sweetland & Oliver Filters.

KETTLES AND TANKS

Pfaudler 250 gal. Glass Lined Jack. Kettle.
Dopp 350 gal. Agit. Jack Cl Vac Kettle.
2—Impreg. Units 30" & 36" dia. complete.
6—Jack. steel Kettles to 1000 gals.
2300 gal. vert. agit. Jack. Steel Kettle.
1—250 gal. Lead lined Kettle.
Stainless, alum., copper. Glass lined, lead lined and steel kettles and tanks.

PULVERIZERS AND MILLS

2—Mikro Pulverizers #2TH & #2SI.
Abbe 37"x30" chrome-mang. Ball Mill.
Pebble Mills, 30"x24", 30"x30", 34"x30", 30"x42", 4'x5'. Also Jar Mills.
#1 Raymond Autom. Pulverizer, 20 HP.
1—#00 Raymond Mill, 30 HP complete.
2—#0000 Raymond Mills.
Sturtevant #0, 18" hinged Hammer Mill.
Schutz-O'Neill #1 & 20" Pulverizers.
Williams #3 & 2XX Hammer Mills.
Ball & Jewell Rotary Cutters Lab & up.
Jeffrey 18"x18" single Roll crusher.
2—Robinson 18" & 22" BB Attrition Mills.
1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills, 9" x32", 12"x30", 16"x40".
1—Monarch 9"x24" Steel Roller Mill, 3 pr. high. Also 7½x20, 4 Roll.
Houchin 18"x30" 4 Roll Granite Stone Mills.
2—U.S. & Premier 1½ H.P. Colloid Mills.

MIXERS, SIFTERS & SCREENS

Day Imperial 75 & 150 gal. Jack. Mixers.
Lancaster 6' dia. Vert. Mixer 25 HP.
Kent 3 HP. continuous dry mixer.
Baker Perkins double arm Mixers, 100 & 50 gals. Also single arm Mixers.
Blystone 3000# horiz. spiral mixer.
Day Brighton 20 gal. Change Can Mixers.
Read 50 & 100 gal. double arm mixers.
Read 80 qt. vert. mixer, 3 speed.
Tyler 3'x5' Vibratory 2 deck Screen.
10—Dry Powder Mixers, 50 to 3,000#.
3—Day 8, 15 & 40 gal. Pony Mixers.
15—Portable Elec. Mixers, ¼ to 3 HP.
6—Lead and Paste Mixers to 150 gals.

MISC. AND SPECIALS

Stokes 280A 4" dia. Preform Machine.
Stokes & Kux 2½" dia. Preform Machines.
Tablet Machines, Single Punch & Rotary.
Anderson & French Oil Expellers.
3—Stokes and Day Powder Fillers.
Filling Machines & Labelers.
Pneumatic Scale Automatic Capper.
1—Howe Mogul barrel and bag packer.
2—Worth 12"x12"x12" Vac. Pumps.
8—Devine, Buffalo, Stokes Vac. Pumps.
Conveyors & Elevators. Gas Boilers.
Soap Machinery for Toilet, Laundry, etc.
Centrif., Rotary, Duplex & Triplex Pumps.

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PART 4

MIXERS ALL TYPES

M25-302—Baker Perkins Universal Mixer Size JN14; 50 gal. double arm; Jacketed; 25 HP
M25-223—W. & P. Unjacketed Sigma blade Mixer; 31"x34"x28"; 10 HP XPL
M25-212—J. H. Day Cincinnattus No. 4 Sigma Arm Mixer; 50 Gal.
2160—W. & P. Type Jktd. Double Arm 100 Gal. Mixers geared both ends
4271 D1—Baker Perkins Size 17 Class BB Type VII Jacketed Mixers; double sigma arms; 200 Gal.
M25-222—Baker Perkins Unidor Mixer Size 18; 300 Gal. with motor
M25-301—Baker Perkins 2500 gal. Stainless Mixer with double cored arms; 150 HP motor
M13-197—Simpson Porto Muller 39"x12" with Two 16" Mullers
M13-192—Simpson 24" Laboratory Size Mix Muller
3668 S2—Lancaster Mix Muller No. 3 with Skip Hoist
M13-194—Lancaster Model EAG 3; diameter 45⅝"; 5½ cu. ft.
M13-191—Simpson 6' Mix Muller No. 2 with 25 HP motor and accessories
M13-195—Simpson Mixer No. 1 48"x18" with 27"x5" Muller; 7½ HP
2682—J. H. Day Jacketed Egg Clipper Mixer; 20"x22"x28"
3951 U2—Steel Dough Mixer; 200 gal. 36"x38"x 42"; tilting; 10 HP Dbl. geared
4171—J. H. Day 400 lb. Ribbon Mixer; 25"x36" x30"
4060 S1—J. H. Day 400 lb. Double Ribbon Mixer; 22"x70"x28"
3843 S1—J. H. Day 600 lb. Sifter and Mixer; 24"x26"x60"
4269—H. K. Porter Stainless Jacketed Ribbon Mixer; 4'x4'x7'6" 106 cubic feet; driven by 25 HP motor
3699—New Steel double ribbon Mixers in sizes from 24 cu. ft. to 215 cu. ft.
3333—Sprout Waldron Mixers; 283 cu. ft. 5' dia. x 10' long; center discharge
3538—Wolf Powder Mixer; 24"x32"x94" motorized with 5 HP motor
3427 P5—Marquette Paddle Mixer; 24"x12' long
3893—Readco Jacketed Double Ribbon Mixer; 210 gal.; 30"x33"x68"
M29-301—J. H. Day Jacketed Double Ribbon Blender; size 30"x78"x34" with 10 HP motor
3302—Stainless Tumbling Type Mixer; 5'x5' with 3 HP motor
M29-302—Patterson Stainless Conical Tumbling Mixer; 64 cu. ft. with 7½ HP XPL motor
M29-112—Ransome Rotary Drum Mixer; 9'x11'6" arr. for motor drive
M29-R400—Patterson 5' Cone Blender arr. for motor drive with stand
M29 A401—Stainless Steel Ribbon Blender, 36'x 44"x72" water Jacket
M29 A402—Struthers Wells Stainless Steel 6' Cube Blender with drive for 20 HP
NLC-M1—Steel Mixing Tanks, heavy duty from 75 gal. to 1,000 gal.
3692 P1—Heavy duty Post Mixers with 6' shafts and cans 24"x28"
3876-P-1—Eppenbach Stainless Steel Homo-Mixer; 1 HP
4305 P3—Baker Perkins Cascade Mixer Installation; fully jacketed 250 PSI; Type 316 Stainless

SIFTERS SCREENS

4172—Selectro Double Deck Sifter 24"x84"; 3 HP
S5 261—Selectro Stainless Steel Screen; double deck; 28"x72"; 3 HP
3989 K2—Orville Simpson Rotex Sifter No. 21; 30"x60"; 1 HP
4072—Patterson GyroCentric No. 300; 20"x48" S S; 3 HP motor
3515—Smithway 3 S Shaker Screen; 40"x99" with 1 HP motor
3484 A33—Sutton Steele Separator Model B 100 with 5 HP motor
3903—Robinson Unique Gyro Sifter; 20"x84" Double Deck
3853 S10—Ajax Vibratory Screen; 18"x48"; Stainless contacts
S5-240—Selectro 18"x60" Steel 2 deck Screen V drive
3853S-11—Robinson Vibrating Screen 40"x60"; S.S. contacts
4261 S1—Robinson Unique Gyro Sifter; 30"x 72" 1 HP
4319—Robinson Gyrex Double Deck Sifter; 53"x102"
S5-244—Tyler Hummer Screen; 3'x5' with converter, exciter and motor
4217—Tyler Hummer Screen 34"x61" with Vibrator
S5-251—Orville Simpson Rotex Triple Deck Sifter; 18"x80" with 1½ HP motor
4036 A1—Rotex Model #421 Sifter 60"x84" with 2HP motor
4022 P2—Robinson Unique Gyre Sifter; stainless lined; 20"x69½"; ½ HP motor
S5-300—Robinson Single Deck Screen No. 11; 20"x72" motorized
4081 N2—Witte Stainless Steel Sifter; 21"x10' complete
4082A—Abbe Blutergess Turbine Sifter No. 1; motorized
4300 M5—Dings Magnetic Separator with 1 HP Motor

MILLS — GRINDERS PULVERIZERS

4347 B1—Abbe Porcelain Lined Pebble Mill; 36"x42"
4347 B2—Abbe Porcelain Lined Pebble Mill; 48"x60"
3745C—Two Patterson Buhrstone Line Pebble Mills; 6'x5' and 6'x8' complete with pebbles
M3-M101—Steel Ball Mill; 20"x44" with 3 HP motor.
3693—Steel Ball Mill 34"x38".
M3 C302—Abbe No. 5A Steel Ball Mill; 3'x4' motorized
3443—International 8'x8' Porc. Lnd. Pebble Mills; 50 HP Gearmotors.
3789—Patterson Pebble Mills from 20"x30" to 6'x8'
3564—Abbe 50 gal. Porc. Lined Pebble Mill; 20"x30".
3800—Hardinge Conical Ball Mill with Titanite Liners; 10'x48" with scoop feed and accessories.
M3 D300—Abbe Unlined Steel Ball Mill; 6'x8'
M3 G301—Patterson Unlined Steel Ball Mill 6'x5' with
M3-B100—Patterson 5'x16' Jacketed Ball Mill; Chrome Manganese lined; 100 HP motor
M3-202—Patterson Byerlite Lined Ball Mill; 6'x 8'; 50 HP
4147 C9-10—Two Smidth Tube Mills 5'5"x20'; V belt drive
4147 C3-6—Four Gates Tube Mills; 5' x 22'
3655 W2—Gruendler Supermaster No. 1 Hammer Hill; 15 HP
4082 A1—Mikro Pulverizer Model 2 S1 Bronze Chamber; PD
3324 E2—Mikro No. 4 F Pulverizer; 15"x24"
McA1501—Mikro No. 2 Type SCB chamber 7"x11½"; arr. for motor drive.
3705 L3—Fitzpatrick Homoloid Pulverizer; motorized
1001 N1—Williams Model NF Hammer Mill; 25" x 14"; requires 60 HP
3429 A7—Williams Hammer Mill 36" x 18"; requires 60 HP
3429 A-5-6—Williams Hammer Mill No. 4 18" x 48" requires 60 HP
4147 C14—Williams No. 6 Hammer Mill; 42" x 48"; V belt
3769—Jay Bee Model 2U Hammer Mill; 10¾" x 14" requires 20 HP
3429 A8—Gruendler Pulverizer 12" x 48" requires 150 HP motor
3192 A1—Gruendler Pulverizer No. 3 chamber 8" x 16"
3429 A9—Gump Bar Nun No. 40 Hammer Mill; 12" 40"; requires 60 HP
3545—Jay Bee Model A4 chamber 12" x 18" with 25 HP motor
3277 E1—Mead Hammer Mill No. 1 arranged for Pulley Drive
4041 P45—Robinson Size 16 Single Runner Attrition Mill
3277—Robinson 26" Double Runner Attrition Mill; two 10 HP motors
3529W—Bauer 24" Double Runner Attrition Mill with two 20 HP motors
3120—American Ring Roll Crusher; 30" x 32" throat; 50 HP
3315 E2—Williams Ring Roll Mill; ring 3" x 10"; with 3 rollers 4" dia. arranged for motor drive
3293 N1—Raymond Imp Mill 9" x 18" with accessories
4041 P48—Raymond No. 0000 Automatic Pulverizer cooling Jacket; 5 HP motor
2383—Raymond Model No. 00 Aut. Pulverizer with accessories
M10 D400—Raymond No. 40 Stainless Steel Imp Mill; 40 HP
3853-S—Raymond No. 50 Stainless Imp Mill with 50 HP motor
4066G—Raymond No. 47 Imp. Mills; 50 HP motor
4062 K2-5—Four Raymond No. 32 Imp. Mills; 20 HP motors
MWK-1—Sprout Waldron Roller Mill 2 pair high; 9" x 18"; 10 HP
JR-1—Allis Chalmers Flaking Mill 20"x24" with 25 HP motor
4041 P43-44—Two Robinson Unique 4 Roll Mills; 7" x 24"; 20 HP
4042 K3—Sprout Waldron 2 Pair High Roller Mill; 9" x 18"; 10 HP
3245 S3—Ross 3 Roll Mills 12"x30"; water cooled
3245 S4—Ross 3 Roll Mills 16"x40"; water cooled
M10-403—Rietz Disintegrator Model RD8 with 5 HP motor
M10-404—Rietz Disintegrator Model RD 12 with 20 HP motor
M10 405—Reitz Model RD 18 Disintegrator; 50 HP motor
M10-402—Mitts Merril No. 14 Shredder; motorized

Baker Perkins 200 Gallon Mixers Size 17; heavy duty, double sigma arms. Jacketed.

Double Arm 100 Gallon Mixers; Jacketed; Nabem or Sigma Arms; power screw tilt; like NEW.

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10—Sweetland #12 Filters with 72 Stainless Steel Leaves.

2—Sperry C. I. 4-eye closed delivery Filter Press, 45 ch. each, hydraulic closing device.

2—Sperry Heresite covered 4-eye closed delivery Filter Press, 24" x 24", 35 chambers each, hydraulic closing device.

1—Republic 15" x 15" Flexmaster Stainless Steel Filter, 15 chambers.

1—Oliver Rotary Vacuum Filter, rubber covered, 3' x 6'.

2—Bird Continuous Centrifugal Steel Filter, 24" x 38".

1—Tolhurst Center Slung Stainless Steel 26" Centrifuge.

1—AT&M Stainless Steel 48" Suspended Type Centrifuge.

3—Sharples 16Y Stainless Steel Centrifuge.

1—Stainless Steel Bubble Cap Column 4' x 35', with 20 trays.

1—H. K. Porter Stainless Steel 500 gallon Jacketed Reactor.

1—Baker Perkins Type 316 Stainless Steel ter Meer Continuous Centrifugal, Model HS-24", complete.

1—Stainless Steel Jacketed Reactor with agitator, 125 gal.

1—Stainless Steel Jacketed Reactor, complete with condenser and receiver, 550 gallons.

1—Pfaudler Glass-Lined Jacketed Reactor, Series R, 750 gal.

1—Stainless Steel Vertical Storage Tank, 3500 gallons.

1—Tippett & Wood Steel Jacketed Reactor, 1000 gal., ASME.

1—Day Stainless Steel Double Arm Jacketed Sigma Blade Mixer, 200 gal.

1—Day Gearless Pony Mixer, 50 gallons.

4—Patterson Side-Entering Agitators, Model OPGM, with 25 HP explosion proof motor.

2—Baker Perkins Laboratory Mixers, 0.7 gal.

10—Horizontal Aluminum Storage Tanks, 17,000 gallons each.

1—Lancaster Stainless Steel Laboratory Muller.

5—Simpson #0 Intensive Mixers.

1—Link Belt Roto Louvre Dryer, Model 502-20.

1—Baker Perkins 150 gallon Double Arm, Dispersion Blade, Jacketed Mixer, 100 HP motor.

1—Buffalo Double Drum Dryer, 42" x 120", ASME.

8—Stokes Single Door Vacuum Shelf Dryer, 8 shelves.

1—Kent High Speed 3-roll Mill, 9" x 24", complete.

1—Mikro #4TH Pulverizer, with 60 HP motor.

1—Mikro #2TH Pulverizer, complete.

1—Worthington Horizontal Air Compressor, Model HB, 14" x 12" with 50 HP motor.

R. GELB & SONS, INC.
UNION, NEW JERSEY Est. 1886 MUrdock 6-4900

CHOICE EQUIPMENT AVAILABLE NOW

4—Stokes Model "R" Tablet Machines, vari-drive.

2—#12 Sweetland Filters, 36 monel leaves on 4" centers.

1—J. P. Devine 3 x 8' Rotary Vacuum Dryer.

1—1000 gal. S.S. Agitated Tank with coils.

2—Devine #28 dbl. dr. Vacuum Shelf Dryers.

3—Day & Ross 40 gal. Pony Mixers, m.d.

2—Patterson 4 x 5' & 5 x 6' Pebble Mills, m.d.

1—Tolhurst 40" suspended Rubber Lined Centrifugal, 2 speed motor drive.

1—W & P 100 gal. jack. Mixer, 30 H.P. ex. proof motor.

1—Day Cincinnatus 350 gal. S.S. Mixer.

6—Surface Condenser-Receivers, 30 to 150 sq. ft.

3—Rotex Sifters, 20 x 48 to 40 x 84", single and double deck.

1—Kent 4 x 8" w.c. Lab. Roller Mill, m.d.

1—UNUSED Patterson 5 x 22' Ball Mill.

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ECH SPECIALS

Link-Belt SS Rotary Dryer 31"x16' complete.
Bird Cont. Vac. filter 4'x1' rubber coverd.
Gen. American 42"x120" Twin Drum Dryer
Mikro #4 Pulverizer with 40 hp motor
AT&M 60" Centrifugal 316 SS with 10 hp mtr
1200 Gal. 347 SS Agtd Kettle 5 hp exp. mtr.
Rotex 40"x84" Sifter, 4 separations, 2 hp motor
BP 2600 gal. SS Mixer, size 30, type RWUEM sigma arms, with 150 hp mtr, BRAND NEW
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NEW AND GOOD-AS-NEW EQUIPMENT

1—Stainless Tank #430 Chrome, vert. 7'x10' deep.
20—Jacketed Kettles—Stainless, Copper, Aluminum.
1—Day Mixer, steam jacketed, 50 gal. Sigma Blade.
1—Copper Evaporator, steam jacketed, 9'1"x3'9".
60—New Pressure Cookers, 18"x18" & 24"x28".
150—Pumps—steam and electric.
1—New Glass Nash Centrifugal Pump, 160 gpm.
1—New Nash Vacuum Pump Type AL-572.
1—Buflovak Jacketed Impregnating Tank 42"x52".
1—Stedman Disintegrator size 40-6.
1—Abbe Ball Mill, 36"x42" Buhrstone lined.
#316 Stainless Steel Tanks, new 100, 200 & 360 gal.
1—Nash Air Compressor, Type AL-623.
1—Manten Gaulin Stainless Homogenizer, 125 gph.
1—I&R Vacuum Pump, 5 H.P., 60'.
4—Heat Exchangers, 12" dia. 11' lg., 43 steel tubes.
1—Stokes Single Punch Tablet Machine.
1—Raymond 3" Hammer Mill, like new.
Davenport Rotary Steam Tube Dryer, 6'x36'.
1—New Louisville Continuous Filtering Machine.
2—Stainless Steel Steam Jacketed Readco Mixers.
1—#316 Stainless Reactor, 265 gals. cap., jacketed.
Abbe Pebble & Tube Mill, 5'x22'—Buhrstone Lined.
1—Patterson Ball Mill, porcelain lined, 12"x27".
1—Patterson Ball Mill, 42x36, jacketed.
2—Large Steam Jacketed Horizontal Mixers.
Robinson Pulverizer #20, with 2 motors 10 HP each.
2—Ribbon Type Mixers, 50 & 90 cu. ft.—like new.
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4—Horizontal Retorts 200# w.p., A.S.M.E., from 12" to 24" dia., 4' to 12' long.
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3—3,000 gal. Jacketed Kettles with Turbo Agitators.
1—#10 Day 300 gal. jacketed Sigma Blade Mixer.
4—New Heat Exc. 60' with Cupro Nickel Tubes.
1—Sparkler Stainless Filter Model 33-S-9.
3—2500 gal. Pfaudler G/L Tanks & S/S Agitators.
6—Blackburn-Smith Jacketed Filters, 20 to 160 gpm.
1—Jeffrey Vibrating Conveyor, 15' long.
1—Meade Mill #2 with 7½ H.P. Motor.

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SCREENS—Tyler Hummer 3x5 double—4x5 Single—3x10 double.
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HAMMER MILLS—#1 Mikro Jeffrey Junior 15x8 (10 Hp), 20x20 (30 HP), Gruendler Model 2 W/feed screws, 24" Mikro Sawtooth-Robinson #9.
FILTER—36" dia. Sweetland #12 Laughlin, Continuous Centrifuge, 19"x32"x40".
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CRUSHERS—ROLL—16x10 Sturtevant, 30x16 Chambers.
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AUTOCLAVE — 1 gal. s/s 1000 psi—Jacket 150 psi.

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1—Buflovak 32" x 52", 2 drum
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4—Beaird 4' x 40', direct fired
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1—6" x 6" vac., 2 roll, stainless
1—Buflovak 17 shelf, 42" x 42"
2—DEVINE 10 SHELF, 40" x 44"
1—Buflovak 20 shelf, double door 60" x 80"
1—Devine #0, 3 shelf, 17" x 34"
1—Louisville stainless lined 6' x 45'
1—HERSEY MONEL 3' x 24', DIRECT HEATED
2—Procter & Schwartz 2 trucks 6' x 5' x 6', steam
1—Lydon Roll-in 20' wide, 8 door

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Obituaries

Cecil H. Gamble

Cecil H. Gamble, former secretary and director of Proctor & Gamble Company, Cincinnati, Ohio, died June 19 in Pasadena, Calif. He was seventy-two years old.

Mr. Gamble, grandson of a founder of Proctor & Gamble, joined the firm in 1906, became its secretary in 1915 and was a director for thirty-five years. He retired this past March.

Walter G. Mortland

Walter G. Mortland, founder and former president of Mortland Chemical Company, Pittsburgh, Pa., died June 15 in New York. He was eighty-two years old. He retired from Mortland late in the 1920s.

Gerald A. Busch, employee relations manager of the Mobile Overseas Oil Company, died June 12 in Singer, N. J. He was fifty-one years old. Mr. Busch had been with Mobile Overseas since 1931.

Dr. Albert W. Claflin, president of Rhode Island College of Pharmacy and Allied Sciences, died June 18 in Providence, R. I. He was seventy-one years old.

Singer B. Irelan, head of midwestern operations for Cities Service Company, Bartlesville, Okla., died June 19 in New York. He was sixty-seven years old. Mr. Irelan was a director of Cities Service and president of its oil subsidiary.

Frank A. Poor, a founder, vice-chairman of the board and director of Sylvania Electric Products, Inc., Towanda, Pa., died June 17 in Wolfeboro, N. H. He was seventy-six years old.

Imports

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WHITING—2,400 bgs, N H Weitzner, Antwerp
400 bgs, Hammill & Gillespie, Hull
460 bgs, Pluess Staufer, Antwerp
1,681 bgs, Antwerp
WOOL ALCOHOL—20 cs, N I Malmstrom, Liverpool
GREASE—100 dms, Hummel Chemical Co, Liverpool
100 dms, Chemical Bank, Liverpool
51 dms, N I Malmstrom, Nagoya
150 dms, N I Malmstrom, Bremen
WAX—9 kgs, Olympic Shipping Co, Liverpool

ZEDOARY ROOT—20 bgs, S B Penick & Co, Colombo
ZINC OXIDE—700 bgs, Vera Cruz

Los Angeles

ANTIMONY OXIDE—500 bgs, Harshaw Chemical Co, Glasgow
ARABIC GUM—80 bgs, The Irving Trust Co, Port Sudan
CARAWAY SEED—100 bgs, R J Spitz, Rotterdam
COPRA—1,000 long tons, American Trust Co, Tabaco
EARTH COLORS—900 bgs, Naftone Inc, Bremen
4,311 bgs, Naftone Inc, Rotterdam
EPSOM SALTS—100 bgs, Interstate Universal Inc, Bremen
PEATMOSS—300 bls, Nootbaar Co, Bremen
650 bls, Nootbaar & Co, Rotterdam
200 bls, Van Waters & Rogers, Rotterdam
PEPPER, RED—125 bgs, Hismoco American Co, Shimizu
125 bgs, Hismoco American Co, Kobe
200 bgs, Borneo Sumatra Trading Co, Kobe
SEEDLAC—100 bgs, Getz Brothers Co, Bangkok
SODIUM CYANIDE—250 dms, American Cyanide Co, London
TAPIOCA FLOUR—1,000 bgs, H M Newhall Co, Bangkok

Philadelphia

ANTIMONY REGULUS—100 cs, C Gitlan, Antwerp
BURNT SIENNA—600 bgs, First National Baltimore, Leghorn
CALCIUM PHOSPHATE, DIBASIC—2,204 bgs, Antwerp
CASEIN—500 bgs, F H Paul & Stein Bros, Oslo
CHESTNUT EXTRACT—1,200 bgs, Chase Manhattan Bank, Naples
800 bgs, Tanmex Corp, Marseille
COTTON LINTERS—57 bls, Riverside Mills, Fortaleza
CRESYLIC ACID—401 dms, Concord Chemical Co, Rotterdam
FUEL OIL—72,363 bbls, Hess Inc, Punta Cardon
GYPSUM—30 tons, Daniels Inc, Liverpool
22 tons, Beway Co, Liverpool
6,332 tons, U S Gypsum Co, Hantsport
MAGNESITE—1,376 tons, Split
MOLASSES—1,396,881 gals, Preston
496,409 gals, Sagua La Grande
976,678 gals, Antilla
NAPHTHALENE—699 bgs, Gallard Schlesinger, Hamburg
625 bgs, Gallard Schlesinger, Antwerp
657 bgs, Antwerp
PEATMOSS—400 bls, Halfmoon Trading Co, Rotterdam
1,000 bls, Keer Maurer, Rotterdam
1,000 bls, Premier Peatmoss Corp, Bremen
500 bls, Van Zanten & Co, Bremen
1,200 bls, E Dunwoody, Bremen
1,750 bls, E J Lang, Bremen
1,500 bls, New Amsterdam Import Co, Bremen
1,600 bls, E J Lang, Hamburg
500 bdls, Bruco Peatmoss Corp, Bremerhaven
2,100 bdls, Van Zanten & Co, Bremerhaven
1,000 bdls, Premier Peatmoss Corp, Bremerhaven
1,000 bls, Van Zanten & Co, Hamburg
496 bls, Keer Maurer, Hamburg
498 bls, Tupman Thurlow, Hamburg
1,200 bls, Bremerhaven
SILICON—336 bgs, Helsingborg
SODIUM SILICOFLUORIDE—250 bgs, Chemical Bank, Rotterdam
200 bgs, Dixon Co, Liverpool
SPERM OIL—100 dms, Chase Manhattan Bank, Liverpool
UREA—4,000 bgs, Chemical Manufacturing Co, Liverpool
500 bgs, Genoa
VANILLA BEANS—17 cs, Penna Banking Co, Marseille
51 cs, Camax Co, Vera Cruz
355 cs, Antalaha
WATTLE EXTRACT—7,515 bgs, Durban
WHITING—1,200 bgs, Pluess Staufer, Antwerp

San Francisco

AMMONIUM BICARBONATE—135 dms, C M C Chemicals, Liverpool
CHLORIDE—1,893 bgs, C M C Chemicals, Liverpool
CALCIUM FORMATE—375 bgs, C M C Chemicals, Glasgow
CARAWAY SEED—100 bgs, Mincing Trading Corp, Rotterdam
DEXTRIN—40 bgs, Stein Hall & Co, Rotterdam
EARTH COLORS—675 bgs, Castelazo & Associates, Rotterdam
FORMIC ACID—15 bbls, I M Sobin, Rotterdam
GINGER WASTE—19 bgs, K I Lister, London
GLUE—20 bgs, London
PEATMOSS—1,300 bls, Lastreto Phillips Co, Rotterdam
PETROLEUM, CRUDE—207,868 bbls, Tide Water Associated Oil Co, Sungal Pakning
150,095 bbls, Tide Water Associated Oil Co, Umm Said
123,887 bbls, Fletcher Oil Co, Sungal Pakning
15,108 tons, Richield Iran Oil Co, Bandar Mashur
POLLACKLIVER OIL—100 dms, Wheeler & Miller, Yokohama
POTASSIUM NITRATE—100 bgs, D M Hicks, Bremen
RAFAELITE—107 kgs, International Paint Co, London
SODIUM CYANIDE—250 dms, American Cyanamid Co, London
TAPIOCA FLOUR—1,670 bgs, Stein Hall & Co, Bangkok
UREA, SYNTHETIC—300 bgs, C M C Chemicals, London
VANILLA BEANS—34 cs, Wm Dimond & Co, Papeete
WOOL GREASE—100 dms, N I Malmstrom, Liverpool
30 dms, London
ZINC-AMMONIUM CHLORIDE—200 bgs, Indussa Corp, Antwerp
ZIRCON SAND—357 bgs, Mattoon & Co, Liverpool

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Wax, ouricury, refd., pure, bgs ... lb. .93 - .95
tech., bgs ... lb. .85 Nom.
Paraffin (see P).
Spermaceti, blocks, cs ... lb. .30 - .33
cakes cs. ... lb. .31 - .34
Sugar cane, dom., refd., slabs, 80 lbs. ctns., works lb. .65 - .75
spot ... lb. .67¼ - .72¼
White lead (see Lead, White).
White pine bark, rossed, bls ... lb. .18 - .19
White precipitate, USP powd., dms., lb. 6.55 - —
Whiting (see Calcium carbonate).
Wild cherry bark, thin, nat., bls. lb. .18 - .19
rossed, bls ... lb. .19 - .22
Witch hazel, bark, bls ... lb. .16 - .17
leaves, bls ... lb. .20 - —
Wollastonite, fine, bgs., c.l., works, ton 39.50 - —
l.c.l., ex whse ... ton 56.00 - —
medium, bgs., c.l., works ... ton 27.00 - —
l.c.l., ex whse ... ton 44.00 - —
Woolfat, crude (see Degras), USP (see Lanolin).
Wormseed, American, bgs. ... lb. .20 - .25
Levant, bgs. ... lb. 4.25 - 4.50
45°-47°C., dms., c.l., same basis,

X

Xylene (see Xylol).
Xylenol, cryst., 58°-60°C., m.p., dms., l.c.l., works lb. .40 - —
56°-58°C., dms., l.c.l., works, frt. equald ... lb. .30 - —
lb. .212 - —
l.c.l., same basis ... lb. .215 - —
tanks, same basis ... lb. .199 - —
Fraction, b.r. 7°-9°C., dry above 227°C., dms., c.l., same basis ... gal. .96 - —
l.c.l., same basis ... gal. .99 - —
tanks, same basis ... gal. .85 - —
dry at or below 227°C., dms., c.l., same basis ... gal. 1.11 - —
l.c.l., same basis ... gal. 1.14 - —
tanks, same basis ... gal. 1.00 - —
Xylidines, mixed, o-m-p, dms., c.l. or t.l., works ... lb. .39 - —
l.c.l., same basis ... lb. .40 - —
tanks, same basis ... lb. .38 - —
Xylol, coaltar, indust., tanks, works:—
Bethlehem, Pa ... gal. .34 - —
Birmingham dist ... gal. .32 - —
Chicago dist ... gal. .35 - —
Cleveland dist ... gal. .34½ - —
Johnstown, Pa. ... gal. .33 - —
Lackawanna, N. Y. ... gal. .35 - —
Lone Star, Tex ... gal. .33 - —
Lorain, Ohio ... gal. .33 - —
Middletown, Ohio ... gal. .34 - —
Minnequa, Colo ... gal. .34 - —
Philadelphia dist ... gal. .34 - —
Pittsburgh dist ... gal. .32 - —
Sparrows Point, Md. gal. .34 - —
Terre Haute, Ind ... gal. .35 - —
Youngstown, Ohio ... gal. .32½ - —
petroleum, indust., tanks, works:—
Bayonne, N. J ... gal. .34 - —
Baytown, Tex. ... gal. .33 - —
Chicago, Ill. ... gal. .35 - —
Philadelphia, Pa. ... gal. .34 - —
Providence, R. I. ... gal. .33 - —
Wood River, Ill. ... gal. .35 - —

Y

Yara yara, cns. ... lb. 2.15 - 2.65
Yeast, brewer's, dry, USP, 50 int'l B units per gram, 100-lb. dms ... lb. .47 - —
90 Int'l B units per gram, 100-lb. dms ... lb. .52 - —
200 int'l B units per gram, 100-lb. dms ... lb. .56 - —
300 int'l B units per gram, 100-lb. dms ... lb. .60 - —
Yellow, barium chromate, CP, bbls., dlvd N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul lb. .35 - —
Yellow barium chromate price differentials in other States and city zones are those for chrome yellow below.
Benzidine, AAA, bbls., dlvd lb. 2.10 - —
AAOT, bbls., dlvd ... lb. 2.85 - —
Lightfast, bbls., dlvd ... lb. 3.15 - —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies. lb. 2.85 - —
Selenide lithopone, all shades, bbls., frt. alld. E. of Rockies. lb. 1.05 - —
Cadmium yellows, Los Angeles and San Francisco, ex whse., 1c. per lb. higher.
Chrome, CP, bbls., dlvd. N. of Tenn., and N.C., E. of Miss., including Davenport, Minneapolis, Rock Island lb. .33 - .33½
Dlvd. Ala., Fla., Ga., La. (Shreveport 1½ higher); Miss., N. C., S. C., Penna., Dallas, Tex. 1¼c. higher; Ft. Worth, Tex. 1½c. higher; El Paso Tex. 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher; dlvd. Pac. Coast, for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Hansa, 10 g, bbls., same basis as yellow, chrome ... lb. 2.25 - —
G pigment, bbls ... lb. 1.91 - —
Iron oxide, natural, French type, bgs., c.l., works ... lb. .06 - —
Peruvian type, bgs., l.c.l. ... lb. .0205- .0345
pure, bgs., c.l., works ... lb. .11½- —
l.c.l., works ... lb. .11¾- —
Mercury oxide, bbls., 1,000-lb. lots ... lb. 5.58 - —
smaller lots ... lb. 5.60 - —
Ocher (see Yellow, iron oxide, natural).
Zinc (chromate), bbls., dlvd ... lb. .27 - .27½
basic, dlvd ... lb. .31 - .32½
Yerba santa leaves, bls ... lb. .40 - .42
Yohimbine hydrochloride, bots, tin. oz. 4.30 - 4.50

Z

Zein, bgs., 36,000-lb. lots or more lb. .38 - —
1,000 to 36,000-lb. lots, works lb. .40 - —
smaller lots, works ... lb. .43 - —
Zinc acetate, NF VIII, dms ... lb. .53 - —
tech., dms., works ... lb. .27 - —
Borate, bgs., c.l., dlvd. E ... lb. .192 - —
l.c.l., dlvd E ... lb. .202 - —
Chloride, NF, gran., dms ... lb. .42 - —
precipitated, powd., dms ... lb. .26 - —
soln., 50%, dms., c.l., works, 100 lbs. 5.50 - —
l.c.l., works ... 100 lbs. 6.10 - —
tanks, works ... 100 lbs. 4.85 - —
tech., fused, dms., c.l., works 100 lbs. 10.10 - —
l.c.l., works ... 100 lbs. 10.60 - —
gran. fib. dms., c.l., works, 100 lbs. 10.85 - —
l.c.l., works ... 100 lbs. 11.35 - —
Chromate (see Yellow, zinc).
Cyanide, kgs., 1,000-lb. lots or more, works lb. .523 - —
smaller lots, works ... lb. .543 - —
Dust, pigment, bbls., c.l., works, lb. .17½- —
l.c.l., works ... lb. .18½- —
Fluoride, bbls., works ... lb. .49 - .50
Hydrosulfite, dms., c.l., frt. alld lb. .21½- —
l.c.l., frt. alld ... lb. .22 - .37½
Metal, prime western slabs, E. St. Louis lb. .13½- —
New York ... lb. .14 - —
Zinc naphthenate, liq., 8% Zn., dms., frt. alld lb. .24½- —
10% Zn dms frt alld lb. .30 - —
Nitrate, tech., cryst., bbls., works, lb. .20 - —
Oxide pigment, American process, lead-free, bgs., c.l., frt. alld lb. .14½- —
l.c.l., same basis lb. .15½- —
leaded, 35%, bgs., c.l., mills, frt. alld lb. .15½- —
l.c.l., same basis lb. .16½- —
50%, bgs., c.l., same basis lb. .15⅞- —
l.c.l., same basis lb. .16⅞- —
French process, coml., green seal, bgs., c.l., frt. alld lb. .15¾- —
l.c.l., same basis lb. .16¾- —
red seal, bgs., c.l., same basis lb. .15¼- —
l.c.l., same basis lb. .16¼- —
white seal, bgs., c.l., same basis lb. .16¼- —
l.c.l., same basis lb. .17¼- —
USP, ctns., c.l., frt. alld lb. .17¼- —
l.c.l., same basis lb. .18¼- —
Zinc oxide Pac. coast prices 1c. higher.
Phenolsulfonate, NF, gran., dms. lb. .39 - —
powd., dms ... lb. .42 - .49
Resinate, precip., 7.2-7.6% Zn., dms. frt alld lb. .29 - —
Silicofluoride, dms., works ... lb .12½- .14
Stearate, tech., USP, ctns., c.l lb. .39 - —
lb. .39 - —
l.c.l. ... lb. .40 - .44
Sulfate, powd., monohydrate, 36% Zn, bgs., c.l., dlvd E 100 lbs. 8.75 - —
l.c.l., dlvd E ... 100 lbs. 9.75 - —
Zinc sulfate in bbls. 40c. higher.
USP, gran. dms ... lb. .26 - —
Sulfide, pure, bgs., c.l., dlvd ... lb. .2530- —
Undecylenate, dms. ... lb. 2.25 - 2.50
Yellow (see Yellow, zinc).
Zinc-ammonium chloride, bgs., c.l., works 100 lbs. 9.65 - —
bbls., c.l., works ... 100 lbs. 10.25 - —
l.c.l., works ... 100 lbs. 10.75 - —
Zinc-formaldehyde sulfoxylate, basic, dms., c.l. lb. .25½- —
l.c.l. ... lb. .26 - .41½
c.l., 30,000 lbs. minimum, works lb. .23 - —
Zircon (G), gran., bgs., c.l., works, lb. .03½- —
5 tons to c.l., works lb. .03⅝- —
1 ton to 9,999-lb. lots, works, lb. .04 - —
smaller lots, works ... lb. .06½- —
milled, bgs., c.l., works ... lb. .04½- —
5 tons to c.l., works ... lb. .04⅝- —
1 ton to 9,999-lb. lots, works, lb. .04⅝- —
500-1,999-lb. lots, works lb. .07½- —
Zircon (G) in barrels, 1c. higher.
Zirconium acetate, 13% com., ZrO., Hydride, cns., works ... lb. 7.00 - 8.45
Nitrate, dms., ex whse ... lb. 4.50 - 7.00
Oxide, 92½-99%, white, grd., bbls. or bgs., works lb. 1.50 - —
lump, electric-fused, bgs., lump, electric-fused, bgs., c.l., works lb. .44 - —
5-ton lots, works lb. .44½- —
1 ton to 9,999-lb. lots, lbs., works lb. .45 - —
CP, white, grd., bbls., or bgs., works lb. 1.50 - —
lump, electric fused, bags, 500 to 1,999-lb. lots, works lb. .45½- —
smaller lots, works, lb. .48 - —
milled, electric-fused, bgs., c.l., works lb. .59 - —
5-ton lots, works ... lb. .59½- —
1 ton to 9,999-lb. lots, works lb. .60 - —
500 to 1,999-lb. lots, works lb. .60½- —
smaller lots, works, lb. .63 - —
Oxychloride, cryst., ctns., 5-ton lots, works lb. .35½- —

Bids Wanted

Alcohol, 38,070 gals, denatured alcohol, inv. 1334-B, July 2, Gen. Stores Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.; 4,050 gals. in 55-gal. dms. methyl alcohol, CP, 99.9% by volume, for period from Aug. 1, 1956, thru July 31, 1957, inv. 76, July 6, Atomic Energy Commission, Paducah Area Office, P.O.B. 969, Paducah, Ky.

Carbon dioxide, liquid, for period from July 1, 1956 thru Sept. 29, 1957, inv. 83, June 28, Purchasing & Contracting Office, McConnell AFB, Wichita, Kans.; carbon dioxide for period from date of contract thru June 30, 1957, inv. 5, July 3, Supply Dept., Naval Air Material Center, Navy Dept., Phila. 12, Pa.; 65,000 lbs. carbon dioxide for fire extinguishing purposes, inv. 85, June 29, Commerce Dept., Supply Div., Technical Development Center, P. O. B. 5767, Indianapolis, Md.

Chlorine, liquid, for period from July 1, 1956 thru June 29, 1957; Elephant Butte, N. Mex., inv. 503-882, June 26, Interior Dept., Bureau of Reclamation, Rio Grande Proj., 211 U. S. Court House, El Paso, Tex.

Cresylic acid, 11,448 gals., inv. 1, July 2, Purchasing & Contracting Office, McClellan AFB, Calif.

Drugs, morphine sulfate tablets, ox bile extract tablets, potassium permanganate tablets, quinidine sulfate tablets, saccharin sodium tablets, thiamine hydrochloride tablets, sodium salicylate tablets, East & West Coast, inv. A-583, June 27, barbital sodium, codeine, codeine phosphate, pentobarbitol and penicillin G potassium, East & West Coast, inv. A-589, June 27, cod liver oil theobroma oil, vanillin, and wool fat, East & West Coast, inv. A-579, June 27, Vets. Adm., Chief, Proc. Div., Supply Service, VA Bldg., Washington, D. C.

Lime, 120 tons, agricultural, ground, inv. 9-61 85, July 5, Justice-Prisons, Fed. Reformatory, Petersburg, Va.

Nitric acid, 7,500 lbs., inv. 20725, June 29, Govern. Printing Office, Purchasing Agent, Washington 25, D. C.

Paint, various colors gloss enamel, for period from date of award thru June 20, 1957, inv. KC-46050, June 26, premixed reflectorized traffic paint, for period from date of award thru June 30, 1957, inv. KC-46049, June 26, Gen. Services Adm., Purchasing Agent, 2306 E. Bannister Road, Kansas City 14, Mo.; 620 qts. green, interior, cellulose nitrate lacquer, 46 gals. yellow camouflage orange lacquer, 223 gals. blue, gloss cellulose nitrate lacquer, inv. 42, June 26, Commander, Gulf USAF Logistic Control Group, Directorate of Procurement, 4400 Dauphine St., New Orleans, La.; 24 qts. glyceryl phthalate, lusterless, air drying or baking enamel, 15 gals. air drying, heat resistant enamel, 57 gals. air drying syn. gloss enamel, 5 gals. gloss, general use, spraying lacquer, 10 gals. raw linseed oil, 20 gals. thin liquid flammable paint and varnish remover, 20 gals. clear lacquer thinner, 30 gals. clear, water resisting spar varnish, 150 gals. semigloss, interior, deck paint (fire retardant), inv. 245, June 29, Quartermaster Office, Purchasing & Contracting Div., Fort Benning, Ga.; 733 gals. interior, one-coat flat oil paint, inv. 24155, July 5, Supply Dept., Bldg. 83, Phil. Naval Shipyard, Navy Dept., Naval Base, Phila. 12, Pa.

Palm oil, 5,555,340 pounds, crude, inv. 40-EPA-PO-7-10-56, July 10, Gen. Services Adm., Emergency Procurement Service, 7th & D Sts., S.W., Washington 25, D. C.

Polyvinyl chloride, resin, 100,000 lbs., suitable for use as ingredient of printing inks, inv. 11, July 5, Treasury Dept., Bureau of Engraving & Printing, 14th & C Sts., S.W., Washington 25, D. C.

Rosin oil, 450 lbs., inv. 20570, June 29, Govern. Printing Office, Purchasing Agent, Washington 25, D. C.

Sodium hypochlorite, 16,000 qts., clear solution, (Javelle water), San Diego, Calif., inv. 155-(1)-1866, July 2, Gen. Stores Supply Office, Navy Dept., 700 Robbins Ave., Phila., Pa.

Titanium dioxide, 500 lbs., white, inv. 20730, June 29, Govern. Printing Office, Purchasing Agent, Washington 25, D. C.

Triacetin, 90,000 lbs., inv. 139, July 9, Naval Powder Factory, Supply Officer, Navy Dept., Indian Head, Md.

Trichloroethylene, 6,000 gals., tech. grade, for use as a low temperature cooling fluid, for period from date of contract thru June 30, 1957, inv. 2, July 12, Supply Dept., Naval Air Material Center, Navy Dept., Phila. 12, Pa.

Zinc oxide, 910,000 lbs., grade 1 and 11, inv. CML-76, July 10, N. Y. Chem. Procurement District, 180 Varick St., New York 14, N. Y.

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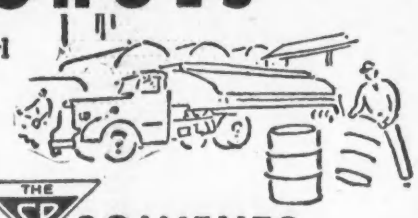

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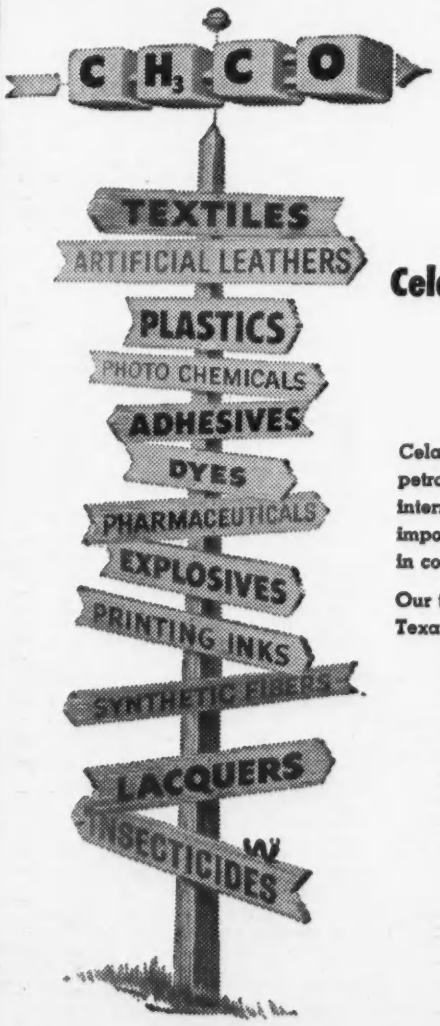

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